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Annual Summary of Fish and Marine Mammal Harvest Data for the Northwest Territories

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Annual Summary of Fish and Marine Mammal Harvest Data for the Northwest Territories

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Freshwater Institute
Central and Arctic Region
Department of Fisheries and Oceans
Winnipeg, Manitoba
R3T 2N6

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Principal Contributors:

Dan Pike	(Iqaluit)
Margaret Keast	(Iqaluit)
George Low	(Hay River)
Linda Orman	(Inuvik)
Lothar Dahlke	(Inuvik)
Laura Anderson	(Winnipeg)

Telephone:

(204) 983-5229

Mailing Address:

Program Coordination and Economics
Department of Fisheries and Oceans
501 University Crescent
Winnipeg, Manitoba R3T 2N6

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INTRODUCTION

This is the fish and marine mammal harvest statistics report on information collected by the Department of Fisheries and Oceans (DFO) for the Northwest Territories for the period 01 April 1990 to 31 March 1991. Harvest statistics are presented for the entire N.W.T. and for each of three DFO administrative areas.

The report details harvest statistics for each of the commercial and exploratory fisheries, marine mammal harvesting and recreational fisheries. Data on domestic fishing and the harvest of seals are not currently available. These data will be reported at such time as DFO's harvest statistics programs are expanded to monitor these fisheries.

In addition to harvest data, related information is presented on the landed value of commercial harvests, the number of commercial and recreational fishing licenses issued, and the number of sports fishing lodges. Commercial and exploratory fisheries for which effort data (number of days, number and size of nets) and biological samples (weight and length measurements, aging structures, maturation information) have been collected are identified.

The report consolidates harvest statistics and related information collected by DFO staff in area offices in Inuvik, Hay River and Iqaluit and regional headquarters in Winnipeg. Some of the information presented was provided by the Government of the Northwest Territories. The Department of Renewable Resources compiles vendor sales reports which were the source of the recreational fishing licence information. The Northwest Territories Fishing Guide, published by TravelArctic, was the source of information on the number and bed capacity of sports fishing lodges.

While in the past harvest studies for the NWT fishery have largely addressed specific fisheries, three recent projects provide a comprehensive review of the N.W.T. fishery. Yaremchuk et al (1989) summarized commercial harvest statistics collected by DFO and other agencies from the inception of commercial fishing in 1945 through to 1987. McGowan (1989) summarized the results of test fisheries conducted in the N.W.T. during 1985 to 1988. Strong (1989) summarized the narwhal, beluga and walrus harvest for the period 1948 to 1987 using information collected by DFO starting in the latter part of the 1970's, and earlier information collected by other agencies and individual researchers.

This report is the third in a series that is prepared annually to ensure that DFO harvest information is readily accessible to DFO staff and clients.

DATA SOURCES AND DATA COLLECTION

DFO maintains Area offices in the Western Arctic (Inuvik), the South/Central Arctic (Yellowknife and Hay River) and the Eastern Arctic (Iqaluit and Rankin Inlet) (Fig. 1). The Areas implement fishery and habitat management plans and programs through allocation, licensing, monitoring and compliance activities. While the same basic fish and marine mammal harvest data are used for management purposes, the Areas tailor the data collection methods to reflect differences in the nature and organization of the fisheries.

WESTERN ARCTIC AREA

Commercial Fisheries

Commercial fishermen in the Western Arctic fish primarily for their own use, but may sell some of their harvest locally. Markets are not organized formally, so it is not feasible to collect data at the point of sale using methods common to commercial fisheries elsewhere in the N.W.T.

DFO conducts a mail out survey of licence holders requesting information for the entire year on the number of days fished, the gear used, and the harvest, sales and sales value of each species for each waterbody fished. Data collected in this manner are likely affected by recall error because fishermen are asked to report on their fishing activities for an entire year. Another source of inaccuracy in the data comes from recording errors made by fishermen in filling out the survey forms. Where data on the weight of fish caught or the value of fish sold were missing, they were estimated based on area averages.

In 1990/91, 21 of 55 commercial license holders participated in the survey. No attempt has been made to estimate the harvest of all commercial fishermen based on this sample.

Marine Mammal Harvests

The Inuvialuit Harvest Study, initiated under the land claim settlement for the Western Arctic, enables monitoring of domestic fish and some marine mammal harvests of the six Western Arctic communities in the Inuvialuit Settlement Area (Fig. 2). Data are collected on a monthly basis by personal interviews with hunters and fishermen in each community and then collated and analyzed by the Harvest Study Coordinator.

The Fisheries Joint Management Committee (FJMC), also established under the terms of the land claim settlement for the Western Arctic, advises the Minister of Fisheries and Oceans on matters relating to the Inuvialuit Settlement Region fisheries. The FJMC, made up of equal representatives of Government and the Inuvialuit Game Council, runs a separate harvest monitoring program for beluga and walrus. This study is designed to provide more precise information than the Harvest Study to ensure that sound management advice can be provided for these two species.

DFO, under the terms of reference for both studies, and with the co-operation of the Inuvialuit, has access to the data they generate.

Recreational Fisheries

The recreational fishery sector primarily consists of a resident sport fishery (approximately 640 licence holders) and, secondarily, of the tourism lodge-based fishery (4 lodges).

There was no recreational fishery monitoring in 1990/91.

SOUTH/CENTRAL ARCTIC AREA

Commercial Fisheries

The South/Central Arctic Area has the largest and most organized commercial fisheries in the N.W.T. The Great Slave Lake fishery alone accounts for about 80% of the total commercial fishery production in the N.W.T.

Much of the commercial production in the South/Central Arctic Area is marketed through the Freshwater Fish Marketing Corporation (FFMC), which is the sole buyer and seller of N.W.T. freshwater fish production destined for intra-provincial and export trade. The quotas on Great Slave Lake, and other inland fisheries delivering to the FFMC, are monitored by maintaining a running total of the FFMC's daily catch records.

Harvest data for N.W.T. commercial fisheries are typically reported for the fiscal year period 01 April to 31 March of the following year. Great Slave and Kakisa Lakes however, are opened on November 1st and remain open until the quota is reached or October 31st of the following year. This is done on the request of the fishermen to ensure that there will be quota available for a winter fishery. Section 3 presents both the production data used by the area office in Hay River for quota management (Tables 3A.5 and 3A.7) and the data reported by the FFMC (Tables 3A.6 and 3A.8). The differences between the data reported in these two tables are mainly due to the exclusion of culls and local sales from the FFMC data reports.

Fishermen making deliveries directly to the FFMC are paid an initial price on delivery and a final payment after the end of the fiscal year which is dependant on the FFMC's profits. As this report series will, in future years, be published on a timely basis and in advance of final payments, such payments are excluded from this report. Appendix 1 shows the amount of final payments, by species, for the past five years.

Much of the Arctic charr harvested in the South/Central Arctic Area is delivered to the fish plant operated by the Ikaluktutiak Co-operative in Cambridge Bay. The Co-op also coordinates the fishing and pays most of the fishing expenses. It provides a "grub stake" to the fishermen at the beginning of each fishing season and pays an initial per kilogram price for their catch on delivery. Some of the commercial harvest is sold locally, but most is shipped, at the expense

of the Co-op, to the FFMC in Winnipeg. The Co-op makes a second payment to the fishermen, usually in December, based on the final payment from the FFMC for the previous year's production. If there is a surplus from the fishery after operating and marketing expenses, a third payment is made in April or May to distribute the surplus among the fishermen. Landed value is calculated from the sum of the first and third payments made to fishermen. In 1990/91 the initial payment was $1.10/kg (round weight equivalent) and the second was $0.154/kg. There was no surplus after expenses so fishermen received no third payment.

The remaining charr fisheries in the South/Central Arctic Area are of a much smaller scale and sales are made either between communities or locally. Sales slips from co-operatives or Hunters and Trappers Associations provide data on the harvest and landed values.

Marine Mammal Harvests

The marine mammal harvests reported here occur only in the high arctic region of the South/Central Arctic Area, and are limited to beluga and narwhal. While there was no harvest at all in 1990/91, in the past, data on this harvest have been made available through the co-operation of the Kitikmeot Hunters and Trappers' Association and the Department of Renewable Resources, Government of the Northwest Territories.

Recreational Fisheries

There is a significant recreational fishery on waterbodies close to the major population centres of Yellowknife and Hay River. The lodge-access recreational fishery is also important, with 38 lodges offering access to remote waterbodies. Eighty-two percent (82%) of all resident sports fishing licenses and 79% of all non-resident licence sales are sold in the South/Central Arctic area.

Only the lodge-access fishery was monitored in 1990/91 and that monitoring was limited to the angler diary program on Great Bear Lake and Blachford Lake. The program, conducted in cooperation with fishing lodges, is a voluntary reporting system in which guests record their fishing effort and catches in diaries. The lodge staff forward completed diaries to DFO for analysis and reporting.

EASTERN ARCTIC AREA

Commercial Fisheries

The Eastern Arctic Area primarily consists of small-scale arctic charr commercial fisheries. In recent years there has also been inshore marine exploratory fishing off the coast of Baffin Island, the species of interest being turbot, cod, scallops and shrimp. The most active of these developmental fisheries has been the Pangnirtung turbot fishery. Baffin Island Inuit also participate in the offshore fishery for northern shrimp, but the monitoring of this large-scale fishery is done by DFO's Atlantic Fisheries Service under the Northern Shrimp Management Plan.

Most of the Keewatin (West Hudson Bay) charr fisheries deliver to fish plants in Whale Cove, Chesterfield Inlet, Arviat and Rankin Inlet. With the exception of the plant in Arviat, which is an independently operated business, these plants are operated by the Hunters and Trappers or Fishermen's Associations. The plants buy fish from fishermen, wash, freeze and pack, and then ship their production to the FFMC. Reliable harvest information can be obtained from the FFMC sales slips.

The price the fishermen receive is set by the plant and is based on the FFMC's initial price, less their anticipated expenses. The total payments made by the plants to fishermen are the landed values shown in Table 4A.4. The fishermen rarely receive a final payment because the FFMC's final payment is used to pay the plants' outstanding operating expenses.

The harvest from the remaining Keewatin charr fisheries and from the Baffin Island charr fisheries are sold within the N.W.T. The harvest data for these fisheries is collected by Government of the Northwest Territories Renewable Resource officers from sales tickets and is considered to be fairly accurate.

Marine Mammals

N.W.T. marine mammal harvesting is concentrated in the Eastern Arctic Area, with virtually all of the narwhal and walrus harvest and 83% of the beluga harvest.

Accurate data on the narwhal harvest are provided by monitoring tag returns. The walrus and beluga harvests are monitored in co-operation with Renewable Resources by observations of community hunts. As this method depends on a Renewable Resource Officer or a Fishery Officer being present when hunting occurs, much of the harvest data are incomplete or missing.

For the short term, pending land claims, this problem should be alleviated in the Keewatin Region since agreement is being negotiated with the Keewatin Wildlife Federation and the Government of the Northwest Territories that should provide DFO access to data collected through the Keewatin Harvest Study. Unfortunately, the Baffin Region Harvest Study data are not available to DFO and as a result, marine mammal harvest data for Baffin communities will remain unreliable.

Recreational Fisheries

A total of 1 709 sports fishing licences were sold in the Eastern Arctic, 1 023 to non-residents of the Northwest Territories. Fifteen fishing lodges were operating in 1990.

No monitoring studies were conducted on any recreational fisheries in the Eastern Arctic during 1990/91.

GLOSSARY OF TERMS

Commercial Fisheries

Commercial fishing is fishing for sale or barter. Schedule V of the N.W.T. Fisheries Regulations specify the waters in which commercial fishing can take place. These waters are closed to commercial fishing unless opened by variation notice made by the Regional Director General, Central and Arctic Region.

Data Source

The data contained in this report come from a variety of sources. In the detailed tables showing the harvest from specific commercial or exploratory fisheries the data source is indicated by one of the following codes:

DCR = Freshwater Fish Marketing Corporation's daily catch records. These record daily totals of the purchases made by agents of the Corporation in terms of the species, weight and price paid.

EFL = Data provided to fulfil the conditions of an exploratory fishing licence.

FJM = Fisheries Joint Management Committee's Harvest Study data for the Inuvialuit Settlement Area.

FO = Fisheries Officers observations or estimations.

FSV = Mail out survey of fishermen (Western Arctic)

FYA = Five year average. For many communities, there are years during which there is no monitoring of the marine mammal harvests. In these years an average is calculated from the most recent five years of data available. This provides some indication of harvest levels in recent years, but in no way is intended as a precise estimate of the community's harvest.

RRO = Verbal reports from Renewable Resource officers, based on their observations and estimations.

STR = Sales slips or trade records collected by either DFO staff or Renewable Resource officers.

TAG = The harvest of narwhal is under quota and monitored by a tag system. Each community is given a limited number of tags and this represents the maximum number of narwhal that can be harvested. Each time a narwhal is harvested a portion of the tag is returned to DFO, providing an accurate count of the harvest.

Data Quality

With the exception of those areas where a five year average is used (see FYA above) because of lack of monitoring, a data quality measure is given in terms of the "maximum estimated error." These are estimated by the area biologists, based on their knowledge of the fishery, and are a measure of

the maximum error that could possibly be associated with the data. For example, a data quality measure of +/-50% would indicate that a reported harvest of 1000 kgs could, in the worse cases, be either 500 kgs or 1500 kgs.

Where the data source is listed as "FYA" the range of harvest values is presented for the years from which the FYA has been calculated.

Exploratory Fisheries

To commercially fish a waterbody that is not listed on Schedule V of the N.W.T. Fisheries Regulations, a fisherman or fishing company must apply to DFO for an exploratory fishing licence. This licence identifies the quota for each species, the gear that can be used, the number of fish DFO requires for biological samples, and the information the proponent must provide on their fishing effort. If an exploratory fishery is shown to have stocks sufficient to support a commercial fishery, after five years of fishing, it may be added to Schedule V of the N.W.T. Fisheries Regulations.

Harvest

The numbers shown as harvest reflect an estimate of the total weight of fish or total number of marine mammals harvested. Fish harvests are reported in the live or round weight equivalent. Because fishermen can actually sell fish in a variety of forms (round, gutted and gutted with head off), conversion factors are used to determine the live weight equivalent.

In the Western Arctic, where harvests are reported by fishermen as numbers of fish, the round equivalent weights are estimated by multiplying by an estimate of the average weight of each species.

Marine mammal harvests are reported by community and are based on the best data available on the number of animals landed. Currently, no corrections are made for animals lost. If there are no data available, the five year average for the community is reported to provide an indication of the historical level of harvesting activity.

Landed Value

The landed value represents the payments received by commercial fishermen for sales of their fish. For those fishermen selling their harvest to the FFMC, these values do not include final payments (see Appendix 1). For the less organized markets in the Eastern and Western Arctic areas, landed values are estimated by the multiplying the harvest weight by the estimated average prices received.

(ll)

This is an abbreviation for land locked. It is used to differentiate landed locked arctic charr from anadromous arctic charr. Almost all of the arctic charr harvested in the N.W.T. is anadromous.

rd kgs

This is an abbreviation for round weight equivalent kilograms.

Resident

1990/91 was the first year that seperate sports fishing licences were sold to Northwest Territorial residents and residents of the rest of Canada. Prior to that year, resident referred to a Canadian resident. Now resident refers to a resident of the Northwest Territories.

Non-resident

With respect to sports fishing licences, a non-resident refers to non-Canadian residents.

Sports Fishing Licence

The Fisheries Act and its regulations stipulate that people between 16 and 65 years of age wishing to sport fish in the N.W.T. must purchase a sport fishing licence.

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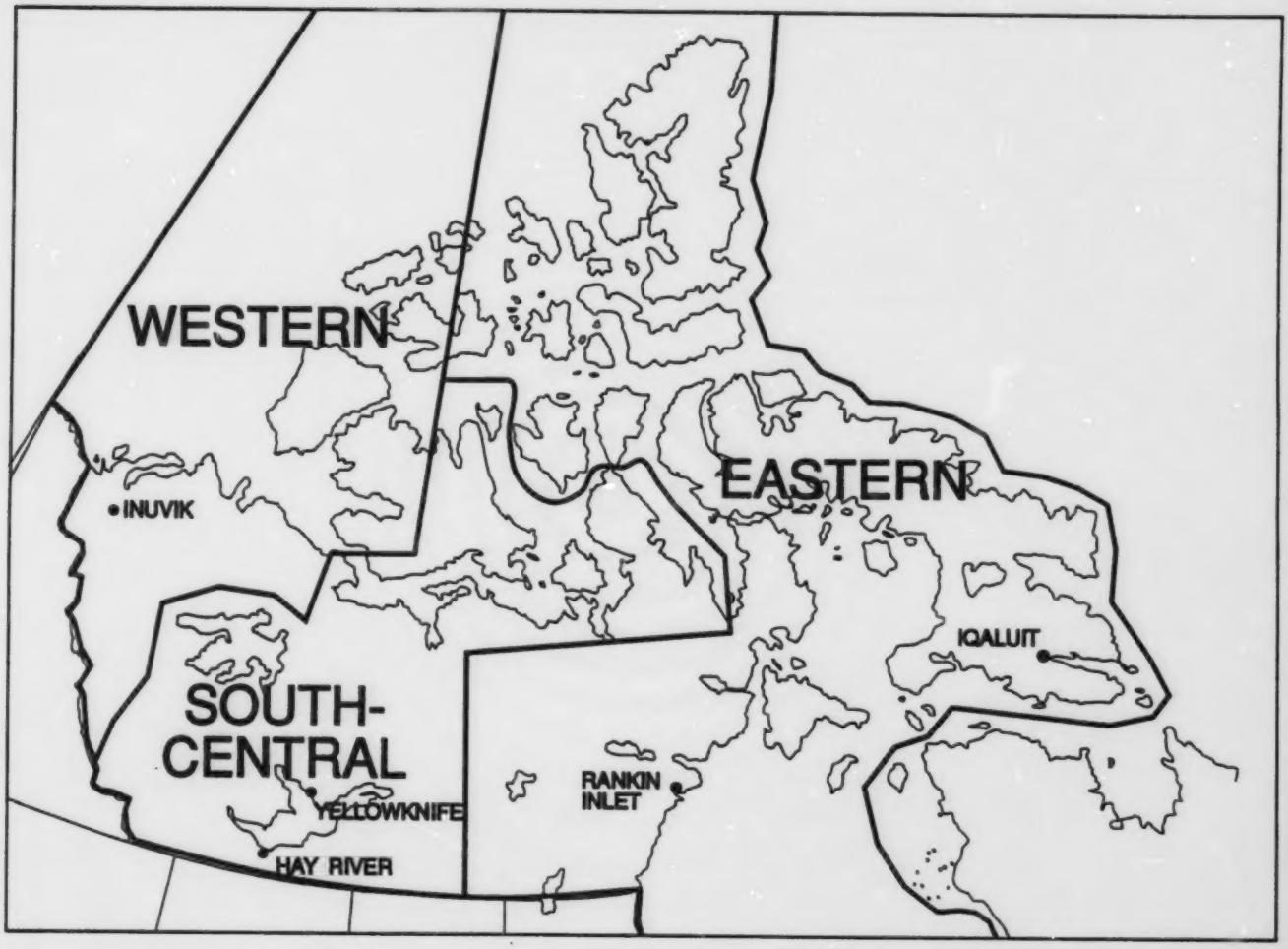
SECTION 1
NORTHWEST TERRITORIES SUMMARY

Figure 1
Northwest Territories
Department of Fisheries and Oceans
Administrative Areas



NORTHWEST TERRITORIES
1990/91 STATISTICAL HIGHLIGHTS

Commercial and Exploratory Fisheries

- 111 waterbodies opened for commercial fishing under Schedule V of the N.W.T. Fisheries Regulations;
- 64 waterbodies were commercially fished, including 3 which were not opened under Schedule V;
- 775 commercial fishing licences sold to 651 fishermen;
- 71 waterbodies opened for exploratory fisheries, of which 33 were fished;
- Total reported commercial and exploratory fishery landings of 2 032 068 kg and landed value of $ 2 165 470;
- Principal commercial and exploratory species harvested were lake whitefish (66% of landings), northern pike (9%), arctic charr (7%), and turbot (7%);
- Great Slave Lake accounted for 82% of the NWT commercial harvest.

Recreational Fisheries

- 15 060 sports fishing licences sold, including 7 397 N.W.T resident licences, 4 805 other Canadian resident licences, 2 368 non-resident licences, and 490 Special Management Area Licences for Great Bear Lake;
- Total sales of sports fishing licences dropped by 13% from 1989/90, probably as a result of the price increase for licences and the drop in tourism in 1990/91;
- 57 lodges with a total bed capacity of 1 055;

Marine Mammal Harvest

- Marine mammal harvest of 498 beluga, 275 narwhal and 376 walrus.

A. COMMERCIAL AND EXPLORATORY FISHERIES

Table 1A.1 Northwest Territories, Schedule V Commercial Fisheries, Harvests and Landed Values, by Area, 1990/91

Area	Number of Schedule V Fisheries Opened	Fished	Harvest (rd kgs)	Landed Value[a] ($)
Western Arctic	9	6	4 074	5 719
South/Central Arctic	38	22	1 769 607	1 642 593
Eastern Arctic	64	36	67 274	210 588
Total	111	64	1 840 955	1 858 900

Table 1A.2 Northwest Territories, Schedule V Commercial Fisheries, Harvests and Landed Values, by Species, 1990/91

Species	Harvest (rd kgs)	Landed Value[a] ($)
Arctic charr	131 789	353 020
Lake whitefish	1 334 037	1 188 707
Broad whitefish	3 171	3 246
Lake trout	67 227	31 936
Walleye	56 197	81 539
Northern pike	169 524	99 988
Inconnu	62 462	95 174
Other	16 548	5 290
Total	1 840 955	1 858 900

[a] does not include final payments for harvest delivered to the FFMC, see Appendix 1.

Table 1A.3 Northwest Territories, Exploratory Fisheries, Harvests and Landed Values, by Area, 1990/91

Area	Number of Exploratory Licenses	Number of Waterbodies Licensed	Number of Waterbodies Fished	Harvest (rd kgs)	Landed Value ($)
Western Arctic	3	3	2	22 635	27 966
South/Central Arctic	15	36	10	6 977	22 928
Eastern Arctic	14	32	21	161 501	255 676
Total	32	71	33	191 113	306 570

Table 1A.4 Northwest Territories, Exploratory Fisheries, Harvests and Landed Values, by Species, 1990/91

Species	Harvest (rd kgs)	Landed Value ($)
Arctic charr	20 007	66 273
Lake whitefish	256	845
Broad whitefish	13 101	15 287
Lake trout	633	1 756
Walleye	34	34
Northern pike	7 199	6 694
Inconnu	1 042	2 531
Turbot	140 791	205 000
Scallops	8 000	8 000
Clams	50	150
Total	191 113	306 570

Table 1A.5 Northwest Territories, Schedule V Commercial Fisheries and Exploratory Fisheries, Total Harvests and Landed Values, 1990/91.

Area	Harvest (rd kgs)	Landed Value[a] ($)
Western Arctic	26 709	33 685
South/Central Arctic	1 776 584	1 665 521
Eastern Arctic	228 775	466 264
Total	2 032 068	2 165 470

[a] does not include final payment for harvest delivered to the FFMC, see Appendix 1.

Table 1A.6 Northwest Territories, Commercial Fishing Licence Sales and Number of Licensed Commercial Fishermen, by Area, 1990/91

Area	Number of Licences Sold	Number of Licensed Fishermen
Western Arctic	56	55
South/Central Arctic	232	219
Eastern Arctic	487	377
Total	775	651

B. MARINE MAMMAL HARVESTS

Table 1B.1 Northwest Territories, Marine Mammal Harvests, by Species and Area, 1990/91

Area	Beluga	Narwhal	Walrus
Western Arctic	87	0	1
South/Central Arctic	0	0	0
Eastern Arctic	411	275	375
Total	498	275	376

C. RECREATIONAL FISHERIES

Table 1C.1 Northwest Territories, Resident and Non-resident Sports Fishing Licence Sales and Revenues, 1990/91.

Category	Number of Licences Sold	Revenues
N.W.T. Resident	7 397	$73 970
Other Canadian Resident	4 805	$91 220
Non-resident	2 368	$91 480
Special Management Area (S.M.A.)[a]	490	$ 4 900
Total	15 060	$261 570

[a]special licence which must be purchased in addition to a sports fishing licence to gain access to Great Bear Lake.

Table 1C.2 Northwest Territories, Resident and Non-resident Sports Fishing Licence Sales Trend

Year	Resident	N.W.T Residents	Other Canadian Residents	Non-resident	S.M.A.	Total
1981/82	11 484	-	-	3 962	-	15 446
1982/83	11 402	-	-	3 289	-	14 691
1983/84	10 842	-	-	3 421	-	14 263
1984/85	12 656	-	-	3 363	-	16 019
1985/86	13 281	-	-	3 626	-	16 907
1986/87	11 909	-	-	3 284	-	15 193
1987/88	13 502	-	-	3 802	-	17 304
1988/89	13 353	-	-	3 363	-	16 716
1989/90	13 807	-	-	3 564	-	17 371
1990/91[a]	-	7 397	4 805	2 368	490	15 060

[a]This was the first year that sperate licences for N.W.T. residents and other Canadians were available.

Table 1C.3 Northwest Territories, Resident and Non-resident Sports Fishing Licence Sales and Revenues, by Area[a], 1990/91.

Area	N.W.T Residents		Other Canadian Residents		Non-resident		Total	
	Number Sold	Revenues	Number Sold	Revenues	Number Sold	Revenues	Number Sold	Revenues
Western Arctic	640	$ 6 400	300	$ 5 725	172	$ 6 360	1 112	$ 18 485
South/Central Arctic	6 071	$ 60 710	3 952	$ 75 080	1 726	$ 67 180	11 749	$202 970
Eastern Arctic	686	$ 6 860	553	$ 10 415	470	$ 17 940	1 709	$ 35 215
Total	7 397	$ 73 970	4 805	$ 91 220	2 368	$ 91 480	14 570	$256 670

[a] Sales and revenues for each area are approximate because the GNWT Department of Renewable Resources, which is responsible for the sale of sports fishing licences, has administrative areas that do not correspond exactly with the DFO administrative areas.

Table 1C.4 Northwest Territories, Residents & Non-residents, Special Management Area Licence Sales & Revenues, by Area, 1990/91

Area	Canadian Residents		Non-Residents		Total	
	Number Sold	Revenues	Number Sold	Revenues	Number Sold	Revenues
Western Arctic	52	$ 520	21	$ 210	73	$ 730
South/Central Arctic	8	$ 80	409	$ 4 090	417	$ 4 170
Eastern Arctic	0	0	0	0	0	0
Total	60	$ 600	430	$ 4 300	490	$ 4 900

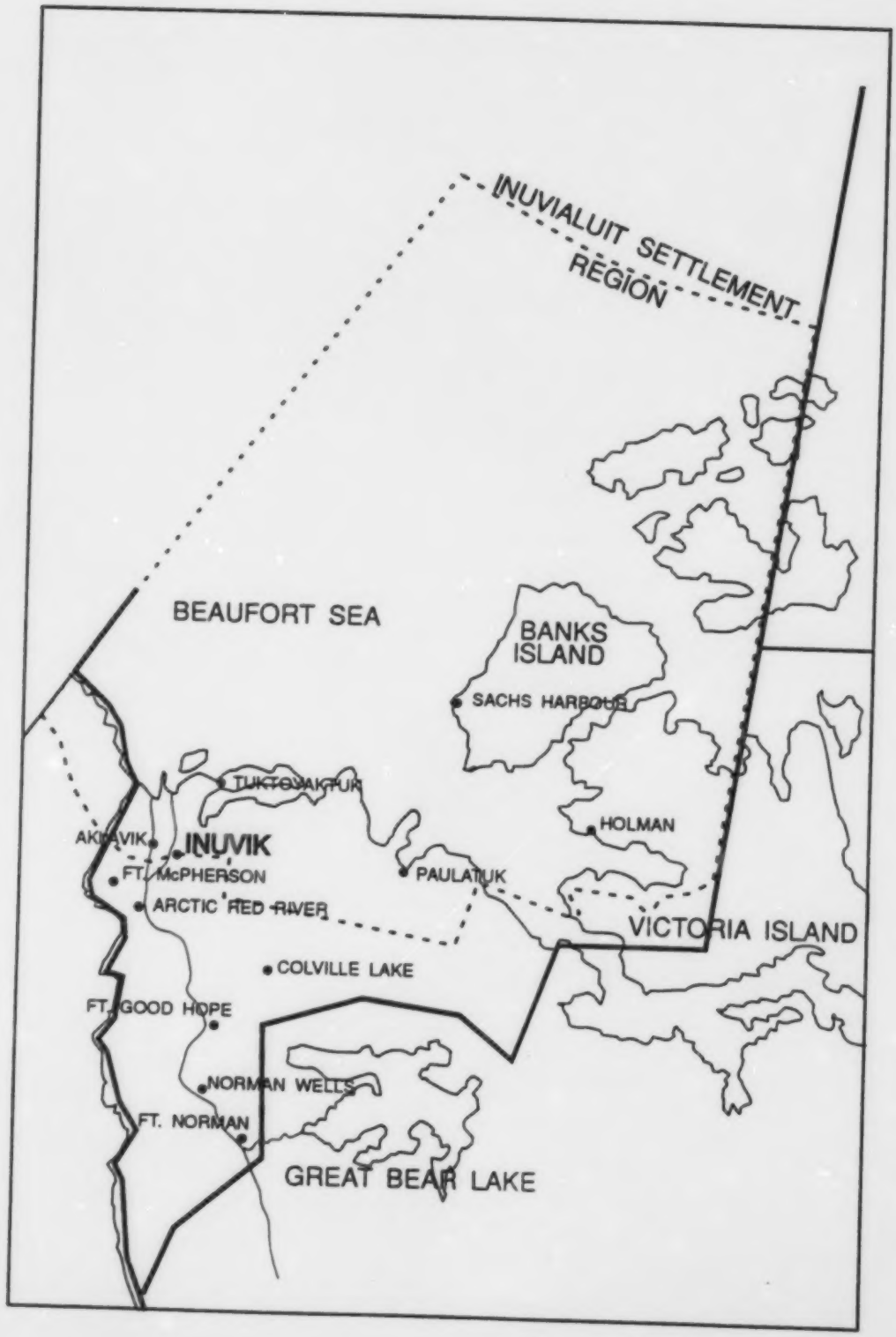
Table 1C.5

Northwest Territories,
Number of Licenced Fishing Lodges
and Total Bed Capacity, 1990/91.

	Lodges	Bed Capacity
Western Arctic	4	67
South/Central Arctic	38	739
Eastern Arctic	15	249
Total	57	1 055

SECTION 2
WESTERN ARCTIC AREA

Figure 2
WESTERN ARCTIC AREA



WESTERN ARCTIC AREA
1990/91 STATISTICAL HIGHLIGHTS

Commercial and Exploratory Fisheries

- 9 waterbodies opened for commercial fishing under Schedule V of the N.W.T. Fisheries Regulations, 5 of which were fished commercially. In addition, commercial harvests were reported from one waterbody which was not opened;
- 56 commercial fishing licences sold to 55 fishermen in 4 Western Arctic communities;
- 38% of commercial licence holders reported landings to DFO;
- Total reported landings were 19 404 kg, 79% of which was retained by fishermen for their own use;
- 3 waterbodies were licensed for exploratory fisheries and 2 were fished;
- Total reported commercial (sales) and exploratory fishery landings of 26 709 kg and landed value of $ 33 685;
- Principal commercial species reported sold were broad whitefish (61% of sales volume), northern pike (26%), arctic charr (5%), and inconnu (4%);

Recreational Fisheries

- 1 112 recreational fishing licences sold, including 640 N.W.T. resident, 300 other Canadian resident, and 172 non-resident licences. In addition, 73 Special Management Area licences were sold for Great Bear Lake;
- 4 lodges with a total bed capacity of 67 beds.

Marine Mammal Harvest

- Marine mammal landed harvest of 87 beluga and one walrus.

A. COMMERCIAL AND EXPLORATORY FISHERIES

Table 2A.1 Western Arctic Area, Schedule V Commercial Fisheries, Harvest and Sales Value, by Species, 1990/91

Species	Total Harvest[a] (rd kgs)	Amount Sold[a] (rd kgs)	Sales Value[a] ($)
Arctic Charr	250	75	200
Lake whitefish	2 280	136	416
Broad whitefish	9 725	3 171	3 246
Lake trout	621	421	1 383
Northern pike	1 329	0	0
Inconnu	2 441	172	116
Cisco	1 542	40	40
Burbot	1 025	54	125
Others	191	5	20
Total	19 404	4 074	5 719

[a] Summary of information provided in a survey in which 38% of all commercial fishermen responded.

Table 2A.2 Western Arctic Area, Exploratory Fisheries, Harvests and Landed Values, by Species, 1990/91

Species	Harvest (rd kgs)	Landed Value ($)
Arctic charr	1 308	3 488
Broad whitefish	13 101	15 287
Northern pike	7 184	6 660
Inconnu	1 042	2 531
Total	22 635	27 966

Table 2A.3

Western Arctic Area
Schedule V Commercial Fisheries
1990/91

Community/ Waterbody Information	Species	Quota	Total Harvest (rd kgs)	Amount Sold	Landed Value	Data Source	Data Quality[a]	Other Data Available	Contact
Mackenzie Delta - Area I									
Sch. V No. : I-12	Broad Whitefish	2 000	191	0	0	FSV	--		
Location : 68-00N 135-00W	Cisco	2 300	0	0	0				
Open Season: 01Jun90-30Nov90	Burbot)	4 600	0	0	0				
	Northern Pike)		448	0	0				
	Lake Whitefish	-	26	0	0				
	Inconnu	-	238	0	0				
Mackenzie Delta - Area II									
Sch. V No. : I-13	Broad Whitefish	3 000	3 322	2 185	$1 016	FSV	--		
Location : 68-15N 125-20W	Cisco	2 300	0	0	0				
Open Season: 01Jun90-30Nov90	Burbot)	4 500	165	0	0				
	Northern Pike)		257	0	0				
	Lake Whitefish	-	789	0	0				
	Herring	-	2	0	0				
	Inconnu	-	694	154	$84				
	Mullet	-	10	0	0				
Mackenzie Delta - Area III									
Sch. V No. : I-14	Broad Whitefish	1 000	0	0	0	FSV	--		
Location : 68-20N 135-00W	Cisco	2 300	0	0	0				
Open Season: 01Apr90-31Mar91	Lake Trout	2 300	0	0	0				
	Burbot)	4 600	0	0	0				
	Northern Pike)		0	0	0				
Mackenzi Delta - Area IV									
Sch. V No. : I-15	Broad Whitefish	1 000	23	0	0	FSV	--		
Location : 69-20N 135-00W	Inconnu	4 600	23	0	0				
Open Season: 01Jun90-30Nov90	Herring	500	0	0	0				

NOTE: DATA IS INCOMPLETE. ONLY THE HARVESTS OF 38% OF LICENCED COMMERCIAL FISHERMEN WERE REPORTED TO DFO.

[a] Data quality estimates are omitted because it is impossible to estimate how much those fishermen who did not fill out a survey harvested.

Table 2A.3 (continued)

Western Arctic Area
Active Schedule V Commercial Fisheries
1990/91

Community/ Waterbody Information	Species	Quota (kgs)	Total Harvest (rd kgs)	Amount Sold (kgs)	Landed Value	Data Source	Data Quality[a]	Other Data Available	Contact
Mackenzie Delta - Area V									
Sch. V No. : I-16	Broad Whitefish	1 000	704	281	$1 000	FSV	--		
Location : 63-30N 132-45W	Herring	500	0	0	0				
Open Season: 01Jun90-30Nov90	Inconnu	-	171	0	0				
	Burbot	-	14	0	0				
Aklavik Area									
Sch. V No. : --	Broad Whitefish	-	2 953	0	0	FSV	--		
Location : 68-12N 135-00W	Lake Whitefish	-	806	0	0				
Open Season: --	Cisco	-	1 440	0	0				
	Inconnu	-	828	0	0				
Kuujjua River (Minto Inlet)									
Sch. V No. : IV-21	Arctic Charr	600	NOT FISHED						
Location : 68-12N 135-00W									
Open Season: 24Aug90-30Nov90									
Manuel Lake									
Sch. V No. : I-18	Lake Whitefish)	800	136	136	$416	FSV	--		
Location : 67-00N 128-56W	Lake Trout)		100	100	$100				
Open Season: 31Jan91-31Mar91									
Peel River									
Sch. V No. : I-21	Broad Whitefish	1 500	1 218	15	$30	FSV	--		
Location : 67-37N 134-52W	Lake Whitefish	-	30	0	0				
Open Season: 01Jun90-30Nov90	Arctic Charr	-	250	75	$200				
	Inconnu	-	500	18	$32				
	Lake Trout	-	3	0	0				
	Northern Pike	-	496	0	0				
	Burbot	-	693	0	0				
	Others	-	168	5	$20				

NOTE: DATA IS INCOMPLETE. ONLY THE HARVESTS OF 38% OF LICENCED COMMERCIAL FISHERMEN WERE REPORTED TO DFO.

[a] Data quality estimates are omitted because it is impossible to estimate how much those fishermen who did not fill out a survey harvested.

Table 2A.3 (continued)

Western Arctic Area
Active Schedule V Commercial Fisheries
1990/91

Community/ Waterbody Information	Species	Quota	Total Harvest (rd kgs)	Amount Sold	Landed Value	Data Source	Data Quality	Other Data Available	Contact
Sam McRae Lake									
Sch. V No. : --	Broad Whitefish	-	2	0	0	FSV	--		
Location : 65-79N 127-10W	Lake Trout	-	64	0	0				
Open Season: --	Northern Pike	-	13	0	0				
Sitidgi Lake									
Sch. V No. : I-25	Lake Whitefish)	300	0	0	0	FSV	--		
Location : 68-30N 132-40W	Lake Trout)		454	321	$1 283				
Open Season: 01Apr90-31Mar91	Broad Whitefish		136	0	0				
Tuktoyaktuk Area									
Sch. V No. : --	Broad Whitefish	-	803	690	$1 200	FSV	--		
Location : 69-27N 133-02W	Lake Whitefish	-	363	0	0				
Open Season: --	Cisco	-	94	40	$40				
	Inconnu	-	58	54	$125				
Unknown Lake or River[b]									
Sch. V No. : --	Broad Whitefish	-	373	0	0	FSV	--		
Location : --	Lake Whitefish	-	130	0	0				
Open Season: --	Cisco	-	8	0	0				
	Inconnu	-	225	0	0				
	Northern Pike	-	115	0	0				
	Burbot	-	95	0	0				
	Others	-	11	0	0				

NOTE: DATA IS INCOMPLETE. ONLY THE HARVESTS OF 38% OF LICENCED COMMERCIAL FISHERMEN WERE REPORTED TO DFO.

[a] Data quality estimates are omitted because it is impossible to estimate how much those fishermen who did not fill out a survey harvested.

[b] name of waterbody fished was not incated on 2 survey forms.

TABLE 2A.4

WESTERN ARCTIC AREA
EXPLORATORY FISHERIES
1990/91

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
EF-90/91-10									
Kagloryuak River 70-17N 111-30W	Arctic Charr	140mm	1 500	1 308	$3 488	FO	+/- 0%	samples	L. Harwood
EF-90/91-15									
Prince Albert Sound 70-37N 117-09W	Cod	longlines	1 000	NOT FISHED					
	Shrimp	pots	1 000						
	Scallops	buckets	1 000						
	Marine Clams	dredges	1 000						
	Crabs	traps	1 000						
	Halibut	longlines	1 000						
EF-90/91-21									
Mackenzie River (Horseshoe Bend - Holmes Creek) 68-15N 134-15W	B. Whitefish	140mm	16 000	13 101	$15 287	FO	+/- 0%	samples	L. Dahlke
	Northern Pike		5 000	7 184	$ 6 660				
	Inconnu		5 000	1 042	$ 2 531				

Table 2A.5 Western Arctic Area,
Commercial Fishing Licence Sales and
Number of Licensed Commercial Fishermen, by Community
1990/91

Community	Resident		Non-resident		Total	
	Licences	Fishermen	Licences	Fishermen	Licences	Fishermen
Aklavik	0	0	0	0	0	0
Arctic Red River	5	5	0	0	5	5
Fort Good Hope	0	0	0	0	0	0
Fort McPherson	1	1	0	0	1	1
Fort Norman	0	0	0	0	0	0
Holman	2	2	0	0	2	2
Inuvik	48	47	0	0	48	47
Norman Wells	0	0	0	0	0	0
Paulatuk	0	0	0	0	0	0
Sachs Harbour	0	0	0	0	0	0
Tuktoyaktuk	0	0	0	0	0	0
Total	56	55	0	0	56	55

B. MARINE MAMMAL HARVESTS

Table 2B.1 Western Arctic Area, Marine Mammal Harvests[a], by Species and Community, 1990/91

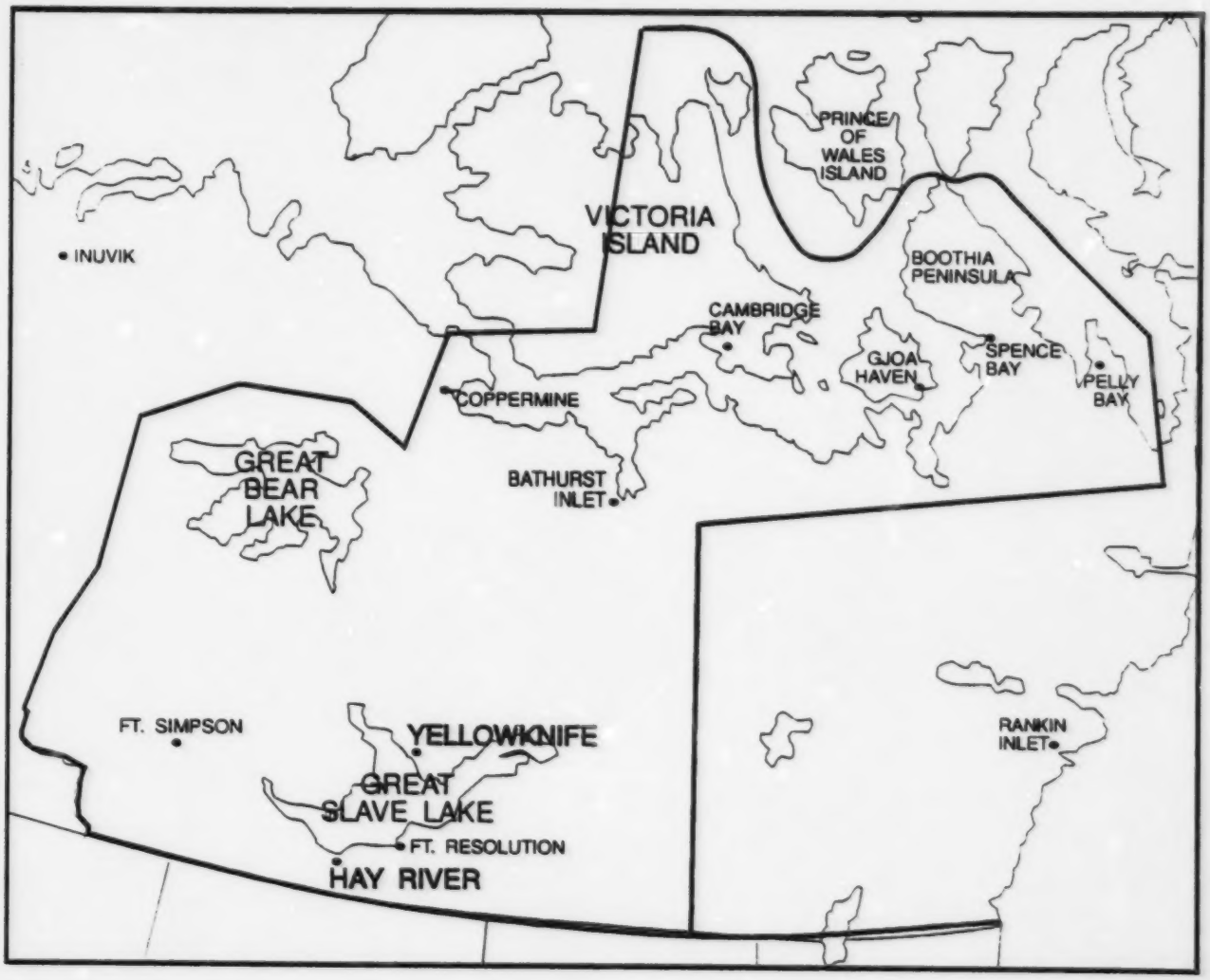
Community	Species	Number Landed	Data Source	Data Quality
Aklavik	Beluga	31	FJM	+/- 5%
	Walrus	0	FJM	n/a
Holman	Beluga	0	FJM	n/a
	Walrus	0	FJM	n/a
Inuvik	Beluga	28	FJM	+/- 5%
	Walrus	0	FJM	n/a
Paulatuk	Beluga	0	FJM	n/a
	Walrus	0	FJM	n/a
Sachs Harbour	Beluga	0	FJM	n/a
	Walrus	0	FJM	n/a
Tuktoyaktuk	Beluga	28	FJM	+/- 5%
	Walrus	1	FJM	+/- 5%
Western Arctic Totals	Beluga	87		
	Walrus	1		

[a] Quantities are landed harvest with no corrections for animals lost.

n/a = not applicable

SECTION 3
SOUTH/CENTRAL ARCTIC AREA

Figure 3
SOUTH/CENTRAL ARCTIC AREA



SOUTH/CENTRAL ARCTIC AREA
1990/91 STATISTICAL HIGHLIGHTS

Commercial and Exploratory Fisheries

- 38 waterbodies opened for commercial fishing under Schedule V of the N.W.T. Fisheries Regulations, of which 22 were fished;
- 232 commercial fishing licences were sold to 219 fishermen in 6 South/Central Arctic communities;
- 36 waterbodies licensed for exploratory fisheries, of which 10 were fished;
- Total reported commercial and exploratory fishery landings of 1 776 584 kg and landed value of $1 665 521;
- Principal commercial species harvested were lake whitefish (75% of landings), northern pike (10%), and arctic charr (4%);
- Great Slave Lake accounted for 95% of the Area's commercial fishery landings.

Recreational Fisheries

- 11 749 recreational fishing licences sold, including 6 071 N.W.T resident, 3 952 other Canadian resident, and 1 726 non-resident licences. In addition, 417 Special Management Area licences were sold to anglers wishing access to Great Bear Lake;
- 38 lodges with a total bed capacity of 739 beds;
- 4 944 gamefish harvested by Great Bear Lake lodge-access fishery, of which 79% were lake trout.

Marine Mammal Harvest

- no harvest of beluga, narwhal or walrus.

A. COMMERCIAL AND EXPLORATORY FISHERIES

Table 3A.1 South/Central Arctic Area, Schedule V Commercial Fisheries, Harvests and Landed Values, by Species, 1990/91

Species	Harvest (rd kgs)	Landed Value[a] ($)
Arctic charr	64 940	143 857
Lake whitefish	1 333 401	1 186 666
Lake trout	66 806	30 553
Walleye	56 197	81 539
Northern pike	169 524	99 988
Inconnu	62 290	95 058
Other	16 449	4 932
Total	1 769 607	1 642 593

[a] does not include final payments for harvest delivered to the FFMC, see Appendix 1.

Table 3A.2 South/Central Arctic Area, Exploratory Fisheries, Harvests and Landed Values, by Species, 1990/91

Species	Harvest (rd kgs)	Landed Value ($)
Arctic charr	6 039	20 259
Lake whitefish	256	845
Lake trout	633	1 756
Walleye	34	34
Northern Pike	15	34
Total	6 977	22 928

TABLE 3A.3

SOUTH/CENTRAL ARCTIC AREA
ARCTIC CHARR COMMERCIAL FISHERIES
1990/91

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest (rd kgs)	Landed Value	Data Source	Data Quality	Other Data Available	Contact
CAMBRIDGE BAY								
Ekalluk River Sch. V No. : IV-9 Location : 69-25N 106-17W Open Season: 01Aug90-30Sep90	Arctic charr	14 500	15 294	$33 647	STR	+/- 0%	240 samples catch/effort	G. Low
Ellice River Sch. V No. : IV-10 Location : 68-02N 104-00W Open Season: 01Aug90-30Sep90	Arctic charr	6 000	6 371	$14 016	STR	+/- 0%	210 samples catch/effort	G. Low
Halovik River (Thirty Mile River) Sch. V No. : IV-13 Location : 69-10N 107-04W Open Season: 01Jul90-30Sep90	Arctic charr	6 800	6 971	$15 336	STR	+/- 0%		
Lauchlan River (Byron Bay) Sch. V No. : IV-22 Location : 68-56N 108-30W Open Season: 01Jul90-30Sep90	Arctic charr	9 100	8 938	$19 664	STR	+/- 0%	105 samples catch/effort	G. Low
Paliryuak (Surrey River) Sch. V No. : IV-27 Location : 69-27N 106-40W Open Season: 01Jul90-30Sep90	Arctic charr	9 100	9 318	$20 500	STR	+/- 0%	210 samples catch/effort	G. Low
Perry River Sch. V No. : IV-29 Location : 67-43N 102-10W Open Season: 01Aug90-30Sep90	Arctic charr	4 500	NOT FISHED					
Unnamed River (Dease Pt.) Sch. V No. : IV-41 Location : 68-10N 104-58W Open Season: 01Aug90-30Sep90	Arctic charr	2 500	NOT FISHED					

TABLE 3A.3 (continued)

SOUTH/CENTRAL ARCTIC AREA
ARCTIC CHARR COMMERCIAL FISHERIES
1990/91

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
CAMBRIDGE BAY (continued)								
Jayco River, Albert Eduard Bay Sch. V No. : IV-14 Location : 69-43N 103-18W Open Season: 01Aug90-30Sep90	Arctic charr	13 600	12 865	$ 28 303	STR	+/-0%	210 Samples	G. Low
Norway Bay River Area Sch. V No. : IV-26 Location : 71-05N 104-33W Open Season: 15Aug90-15Sep90	Arctic charr	2 500	NOT FISHED					
COPPERMINE								
Coppermine River Sch. V No. : IV-6 Location : 67-49N 115-04W Open Season: 01Jul90-30Sep90	Arctic charr	600	600	$2 310	RRO	+/- 5%		
GJOA HAVEN								
Murchison River Sch. V No. : IV-25 Location : 68-35N 93-30W Open Season: 01Aug90-31Mar91	Arctic charr	9 100	NOT FISHED					
Port Parry Area Sch. V No. : IV-30 Location : 69-40N 97-20W Open Season: 01Oct90-31Mar91	Arctic charr	1 000	726	$1 597	RRO	+/- 0%	95 Samples	G. Low
Simpson River Sch. V No. : IV-32 Location : 67-48N 100-45W Open Season: 01Aug90-30Sep90	Arctic charr	4 500	NOT FISHED					

TABLE 3A.3 (continued)

SOUTH/CENTRAL ARCTIC AREA
ARCTIC CHARR COMMERCIAL FISHERIES
1990/91

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
PELLY BAY								
Arrowsmith River Sch. V No. : IV-2 Location : 68-23N 90-17W Open Season: 01Oct90-31Mar91	Arctic charr	1 000	363	$798	RRO	+/- 20%		
Becher River Sch. V No. : IV-3 Location : 68-45N 90-08W Open Season: 01Oct90-31Mar91	Arctic charr	1 000	1 000	$2 200	RRO	+/- 1%		
Keith Bay (Committee Bay) Sch. V No. : IV-17 Location : 68-15N 88-18W Open Season: 01Oct90-31Mar91	Arctic charr	4 500	NOT FISHED					
Kellett River Sch. V No. : IV-18 Location : 68-21N 90-07W Open Season: 01Oct90-31Mar91	Arctic charr	1 000	1 000	$2 200	RRO	+/- 1%		
SPENCE BAY								
Agnew River (Ilaunnallic Bay) Sch. V No. : IV-1 Location : 70-40N 92-40W Open Season: 01Oct90-31Mar91	Arctic charr	4 500	NOT FISHED					
Lord Lindsay Lake Sch. V No. : IV-23 Location : 70-10N 92-25W Open Season: 15Sep90-31Mar91	Arctic charr	2 500	1 494	$3 286	RRO	+/- 0%		

TABLE 3A.4

SOUTH/CENTRAL ARCTIC AREA
WHITEFISH, LAKE TROUT AND WALLEYE COMMERCIAL FISHERIES
(excluding Great Slave and Kakisa Lakes)
1990/91

Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
Blackwater Lake								
Sch. V No. : II-4	Lake Whitefish)	2 300	NOT FISHED					
Location : 64-00N 123-05W	Lake Trout)							
Open Season: 15Sep90-30Nov90								
McEwan Lake								
Sch. V No. : II-32	Lake Whitefish)	600	NOT FISHED					
Location : 60-48N 119-57W	Lake Trout)							
Open Season: 01Apr90-31Mar91								
Pangtium Lake								
Sch. V No. : IV-28	Lake Whitefish)	1 100	804	$1 769	RRO	+/- 5%		
Location : 69-42N 106-22W	Lake Trout)		0	0				
Open Season: 01Oct90-30Mar90								
Piers Lake								
Sch. V No. : II-41	Lake Whitefish)	1 000	NOT FISHED					
Location : 60-20N 111-06W	Lake Trout)							
Open Season: 01Apr90-31Mar91								
Reade Lake								
Sch. V No. : II-42	Lake Whitefish)	300	NOT FISHED					
Location : 60-53N 119-55W	Lake Trout)							
Open Season: 01Apr90-31Mar91								
Ross Lake								
Sch. V No. : III-47	Lake Whitefish)	1 800	NOT FISHED					
Location : 62-41N 113-16W	Lake Trout)							
Open Season: 01Apr90-31Mar91								

TABLE 3A.4 (continued)

SOUTH/CENTRAL ARCTIC AREA
WHITEFISH, LAKE TROUT AND WALLEYE COMMERCIAL FISHERIES
(excluding Great Slave and Kakisa Lakes)
1990/91

Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
Sibbeston Lake								
Sch. V No. : II-48	Lake Whitefish)	500	NOT FISHED					
Location : 61-47N 122-43W	Lake Trout)							
Open Season: 15Jun90-31Oct90								
Tathlina Lake								
Sch. V No. : II-53	Walleye	20 000	6 020	$8 609	DCR	+/- 0%	210 samples	G. Low
Location : 60-30N 117-30W								
Open Season: 01Apr90-31Mar91								
Thistlethwaite Lake								
Sch. V No. : III-53	Lake Whitefish)	1 900	NOT FISHED					
Location : 63-10N 113-37W	Lake Trout)							
Open Season: 01Apr91-31Mar91								
Toassie Lake								
Sch. V No. : IV-37	Lake Whitefish)	900	800	$1 760	RRO	+/- 0%		
Location : 69-41N 106-39W	Lake Trout)		77	$169				
Open Season: 01Nov90-31Mar91								
Tsetso Lake								
Sch. V No. : II-62	Walleye	800	NOT FISHED					
Location : 61-51N 123-01W								
Open Season: 15Jun90-31Oct90								
Willow Lake								
Sch. V No. : II-65	Lake Whitefish)	1 400	NOT FISHED					
Location : 62-11N 119-10W	Lake Trout)							
Open Season: 15Nov90-31Mar91								

Table 3A.5 Great Slave Lake, Harvests by Administrative Areas
November 1, 1989 to October 31, 1990

Area	Species	Quota (rd kgs)	Winter Harvest (rd kgs)	Summer Harvest (rd kgs)	Quota Year Total (rd kgs)
I-WEST	Lake whitefish	)227 300	190 730	35 109	225 839
	Lake trout		8 395	1 383	9 778
	Northern pike		63 153	3 957	67 110
	Inconnu		1 192	38	1 230
	Walleye		566	2	568
	TOTAL		264 036	40 489	304 525
I-EAST	Lake whitefish	)318 200	45 947	153 544	199 491
	Lake trout		4 918	19 786	24 704
	Northern pike		2 318	13 200	15 518
	Inconnu		1 844	16 663	18 507
	Walleye		14	3 995	4 009
	TOTAL		55 041	207 188	262 229
II	Lake whitefish	)318 200	114 334	193 862	308 196
	Lake trout		2 946	6 555	9 501
	Northern pike		19 296	3 972	23 268
	Inconnu		380	134	514
	Walleye		153	52	205
	TOTAL		137 109	204 575	341 684
III	Lake whitefish	) 45 500	0	40 715	40 715
	Lake trout		0	176	176
	Northern pike		0	2 533	2 533
	Inconnu		0	4 324	4 324
	Walleye		0	1 036	1 036
	TOTAL		0	48 784	48 784
IV	Lake whitefish	)409 100	85 691	251 572	337 263
	Lake trout		1 010	2 409	3 419
	Northern pike		4 708	27 874	32 582
	Inconnu		1 471	995	2 466
	Walleye		2 592	18 574	21 166
	TOTAL		95 472	301 424	396 896
V	Lake whitefish	)363 600	101 077	104 827	205 904
	Lake trout		11 668	27 970	39 638
	Northern pike		6 993	55 477	62 470
	Inconnu		37 927	4 506	42 433
	Walleye		22	7 457	7 479
	TOTAL		157 687	200 237	357 924

continued . . .

Table 3A.5 (continued)
Great Slave Lake, Harvests by Administrative Areas
November 1, 1989 to October 31, 1990

Area	Species	Quota (rd kgs)	Winter Harvest (rd kgs)	Summer Harvest (rd kgs)	Quota Year Total (rd kgs)
TOTAL	Lake whitefish)		537 779	779 629	1 317 408
	Lake trout)	1 681 900	28 937	58 279	87 216
	Northern pike		96 468	107 013	203 481
	Inconnu		42 814	26 660	69 474
	Walleye		3 347	31 116	34 463
	TOTAL		709 345	1 002 697	1 712 042

Note: all quotas for G.S.L. are for whitefish and trout combined.

Table 3A.6 Great Slave Lake Harvest Sold to the Freshwater Fish Marketing Corporation and Landed Values to Fishermen, November 1, 1989 to October 31, 1990

Species	Winter		Summer		Quota Year	
	Harvest Sold (rd kg)	Landed Value[a] ($)	Harvest Sold (rd kg)	Landed Value[a] ($)	Harvest Sold (rd kg)	Landed Value[a] ($)
Whitefish Export	520 278	604 623	762 527	516 996	1 282 805	1 121 619
Lake Trout	26 056	34 495	55 636	20 298	81 692	54 793
Northern Pike	87 402	48 939	99 946	57 090	187 348	106 029
Inconnu	43 658	68 917	25 830	40 655	69 488	109 572
Walleye	3 463	5 064	30 498	43 248	33 961	48 312
TOTAL	680 857	762 038	974 437	678 287	1 655 294	1 440 325

[a] does not include final payments, see Appendix 1.

Table 3A.7

Kakisa Lake
Commercial Harvests
November 1, 1989 to October 31, 1990

Species	Quota (rd kg)	Harvest (rd kg)
Walleye	20 000	19 056
TOTAL		19 056

Table 3A.8

Kakisa Lake Harvests Sold to the Freshwater Fish Marketing Corporation and Landed Values to Fishermen, November 1, 1989 to October 31, 1990

Species	Harvest Sold (rd kg)	Landed Value[a] ($)
Walleye	18 369	26 256
TOTAL	18 369	26 256

[a] does not include final payments, see Appendix 1.

TABLE 3A.9

SOUTH/CENTRAL ARCTIC AREA
EXPLORATORY FISHERIES
1990/91

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
EF-9091-02									
Abernethy River 70-53N 93-00W	Arctic Charr	140mm	1 500	NOT FISHED					
EF-9091-04									
Contwoyto Lake 65-36N 110-39W	Lake Trout	140mm	2 000	NOT FISHED					
Nakyoktok River 68-37N 110-52W	Arctic Charr	140mm	1 500	1 500	$5 775	EFL	+/- 1%		
Unnamed Lake 68-40N 111-21W	Arctic Charr Lake Trout	140mm	1 000	NOT FISHED					
Unnamed Lake 68-37N 111-05W	Arctic Charr Lake Trout	140mm	1 000	NOT FISHED					
Unnamed Lake (Emagyok) 68-15N 116-40W	Lake Trout	140mm	500	NOT FISHED					
Unnamed Lake (Kikiktalik) 68-11N 116-20W	Lake Trout	140mm	1 000	NOT FISHED					
Unnamed Lake (Read Island) 69-12N 112-55W	Arctic Charr	140mm	1 000	1 000	$3 850	EFL	+/- 1%	53 samples	G. Low

TABLE 3A.9 (continued)

SOUTH/CENTRAL ARCTIC AREA
EXPLORATORY FISHERIES
1990/91

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
EF-9091-05									
Krusenstern Lake 69-52N 93-00W	Arctic Charr	140mm	500	NOT FISHED					
Lake Hansteen 69-45N 94-15W	Arctic Charr (ll)	64mm	500	NOT FISHED					
Netsilik Lake 69-15N 93-05W	Lake Whitefish	140mm	2 000	NOT FISHED					
Tukingayuk Lake 70-02N 93-07W	Arctic Charr	140mm	500	NOT FISHED					
Unnamed Lake (Nurrsosiurvik) 68-15N 90-16W	Arctic Charr	140mm	500	NOT FISHED					
Unnamed Lake (Tinitpayuk) 68-55N 90-34W	Arctic Charr	140mm	1 000	NOT FISHED					
EF-9091-06									
Back River 67-15N 95-15W	Arctic Charr	140mm	2 000	NOT FISHED					
Kaleet River 67-37N 97-45W	Arctic Cisco	64mm	1 000	NOT FISHED					
Unnamed River (McLoughlin Bay) 67-47N 98-30W	Arctic Charr	140mm	1 000	NOT FISHED					
Unnamed River (Kuptak) Elliot Bay 67-32N 96-26W GH016	Arctic Charr	140mm	2 000	NOT FISHED					

TABLE 3A.9 (continued)

SOUTH/CENTRAL ARCTIC AREA
EXPLORATORY FISHERIES
1990/91

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
EF-9091-07									
Keith Arm	Cisco (spp)	140mm	500	0	$ 0	RRO	+/-0%		
(Great Bear Lake)	Lake Trout	140mm	500	344	$ 922	RRO	+/-3%		
65-20N 122-15W									
EF-9091-08									
Trout Lake	Lake Trout	140mm	1 000	52	$ 52	RRO	+/-0%		
60-35N 121-10W	Lake Whitefish	140mm	1 000	0	$ 0				
	Walleye	140mm	500	34	$ 34				
EF-9091-11									
Unnamed River/Lake (Tagioknitak)	Arctic Charr	140mm	1 500	1 935	$5 321	EFL	+/-0%	101 samples	G. Low
69-15N 102-05W									
EF-9091-14									
Burnside River	Arctic Charr	140mm	2 000	NOT FISHED					
66-50N 108-10W									
EF-9091-16									
Coppermine area	Cod	Longlines	1 000	NOT FISHED					
67-50N 115-06W	Shrimp	Pots	1 000						
	Scallops	Buckets	1 000						
	Marine Clams	Dredges	1 000						
	Crabs	Traps	1 000						
	Halibut	Longlines	1 000						
EF-9091-17									
Rasmussen Basin	Cod	Longlines	1 000	NOT FISHED					
68-26N 94-45W	Shrimp	Pots	1 000						
	Scallops	Buckets	1 000						
	Marine Clams	Dredges	1 000						
	Crabs	Traps	1 000						
	Halibut	Longlines	1 000						

TABLE 3A.9 (continued)

SOUTH/CENTRAL ARCTIC AREA
EXPLORATORY FISHERIES
1990/91

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
EF-9091-18									
Shepherd Bay (Dew Line) 68-47N 92-37W	Cod	Longlines	1 000	NOT FISHED					
	Shrimp	Pots	1 000						
	Scallops	Buckets	1 000						
	Marine Clams	Dredges	1 000						
	Crabs	Traps	1 000						
	Halibut	Longlines	1 000						
Spence Bay area 69-32N 93-31W	Cod	Longlines	1 000	NOT FISHED					
	Shrimp	Pots	1 000						
	Scallops	Buckets	1 000						
	Marine Clams	Dredges	1 000						
	Crabs	Traps	1 000						
	Halibut	Longlines	1 000						
EF-9091-25									
Unnamed River (Kapialtok) 68-10N 106-30W	Arctic Charr	140mm	1 000	10	$0	RRO	+/- 5%	2 samples	G. Low
EF-9091-26									
Berens Lake 60-22N 110-50W	Lake Whitefish	140mm	200	NOT FISHED					
	Lake Trout								
Star Lake 60-20N 110-46W	Lake Whitefish	140mm	200	138	$455	EFL	+/- 5%	103 samples	G. Low
	Lake Trout			157	$518			100 samples	
	Northern Pike			13	$29				
Unnamed Lake (Jean's) 60-22N 110-54W	Lake Whitefish	140mm	200	118	$390	EFL	+/- 5%	104 samples	G. Low
	Lake Trout			80	$264			59 samples	
	Northern Pike			2	$5			1 sample	
Unnamed Lake (Mary's) 60-14N 111-04W	Lake Whitefish	140mm	200	NOT FISHED					

TABLE 3A.9 (continued)

SOUTH/CENTRAL ARCTIC AREA
EXPLORATORY FISHERIES
1990/91

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
EF-9091-28									
Tern Lake 67-48N 97-02W	Arctic Charr	140mm	1 000	NOT FISHED					
Unnamed Lake (Kugaryuk) 68-10N 96-42W	Arctic Charr	140mm	1 000	NOT FISHED					
Unnamed Lakes (Maniktokvik-Squirrel R.) 67-55N 96-48W	Arctic Charr	140mm	1 000	NOT FISHED					
EF-9091-99									
Unnamed Lake (Swan Lake) 66-47N 108-10W	Arctic Charr	140mm	--	1 150	$3 810	EFL	+/- 0%	100 samples	G. Low
Unnamed Lake (Fishing Lake) 66-41N 107-52W	Arctic Charr	140mm	--	454	$1 503	EFL	+/- 0%	50 samples	G. Low

Table 3A.10

South/Central Arctic Area
Commercial Fishing Licence Sales and
Number of Licensed Commercial Fishermen, by Community
1990/91

	Resident		Non-resident		Total	
	Licences Sold	Fishermen	Licences Sold	Fishermen	Licences Sold	Fishermen
Cambridge Bay	33	26	0	0	33	26
Coppermine	7	7	0	0	7	7
Fort Norman	0	0	0	0	0	0
Fort Smith	0	0	0	0	0	0
Gjoa Haven	0	0	0	0	0	0
Hay River	144	140	2	2	146	142
Pelly Bay	13	12	0	0	13	12
Spence Bay	13	13	0	0	13	13
Yellowknife	20	19	0	0	20	19
Total	230	217	2	2	232	219

Table 3A.11

South/Central Arctic Area
Great Slave Lake Operator Licences
1990/91

	Class "A"		Class "B"	
	Summer	Winter	Summer	Winter
Number Available	28	32	61	49
Number Issued	23	32	61	49
Number Active	19	31	49	39

B. MARINE MAMMAL HARVESTS

Table 3B.1 South/Central Arctic Area Marine Mammal Harvests[a], by Species and Community, 1990/91

Community	Species	Number Landed	Data Source	Data Quality
Bathurst Inlet	Beluga	0	RRO	n/a
	Narwhal	0	RRO	n/a
	Walrus	0	RRO	n/a
Cambridge Bay	Beluga	0	RRO	n/a
	Narwhal	0	RRO	n/a
	Walrus	0	RRO	n/a
Coppermine	Beluga	0	RRO	n/a
	Narwhal	0	RRO	n/a
	Walrus	0	RRO	n/a
Gjoa Haven	Beluga	0	RRO	n/a
	Narwhal	0	RRO	n/a
	Walrus	0	RRO	n/a
Pelly Bay	Beluga	0	RRO	n/a
	Narwhal	0	TAG	n/a
	Walrus	0	RRO	n/a
Spence Bay	Beluga	0	RRO	n/a
	Narwhal	0	TAG	n/a
	Walrus	0	RRO	n/a
South/Central Arctic Totals	Beluga	0		
	Narwhal	0		
	Walrus	0		

[a] Quantities are landed harvest with no corrections for animals lost.

n/a = not applicable

C. RECREATIONAL FISHERIES

Table 3C.1 Great Bear Lake Angler Diary Program
Response Rate
Summer 1990

Total Number of Guests	642
Number of Diaries Returned	451
Number Filled out Correctly	374
Response Rate	58%

Table 3C.2 Great Bear Lake Angler Diary Program
Four Year Trend of Results

	1987	1988	1989	1990[a]
Number of Guests	1 319	1 145	961	642
Response Rates	37%	65%	65%	58%
Angling Days per Respondent	5.5	5.5	5.8	5.6
Estimated Total Angling Days	7 255	6 298	5 574	3 595
Catch per Angler Hour				
- Lake trout	1.26	1.16	1.29	1.21
- Northern pike	3.41	3.32	2.55	2.97
- Arctic grayling	3.28	3.48	2.48	3.16
- All Species	1.44	1.39	1.41	1.37
Harvest Estimates				
- Lake trout	8 955	7 058	5 995	3 921
- Northern pike	360	374	365	274
- Arctic grayling	2 756	2 294	1 425	741
- Other	17	45	0	8
- Total - All Species	12 088	8 771	7 776	4 944

[a] fishing effort and harvest levels lower in 1990 because one lodge was closed all season, and another operated for only half of the season.

Table 3C.3 Great Bear Lake Angler Diary Program
Reported[a] Catch and Effort from
Fly-out Arctic Charr Fishing Trips[b]

	1987	1988	1989	1990
Number of respondents reporting on charr fishing	194	358	254	200
Percent of total number of respondents	36%	45%	36%	44%
Total charr fishing days	252	529	395	280
Total charr fishing hours	1 196	2 749	2 057	1 567
Total charr catch	966	2 303	2 135	1 936
Total charr harvest	295	543	435	378

[a] No estimate of total fishing effort or harvest has been made for arctic charr because there is not sufficient information on the fly-out trips of all guests.
[b] Fly-out trips were most often to the Coppermine, Tree and Kugaryuak Rivers.

Table 3C.4 Blachford Lake Lodge Angler Diary Program
Response Rate
Summer 1990

Estimated Total Number of Guests Days	505
Number of Diaries Returned	68
Number of Guest Days of Anglers who Returned Diaries	244
% of Estimated Total Number of Guest Days Sampled in Diaries	48%

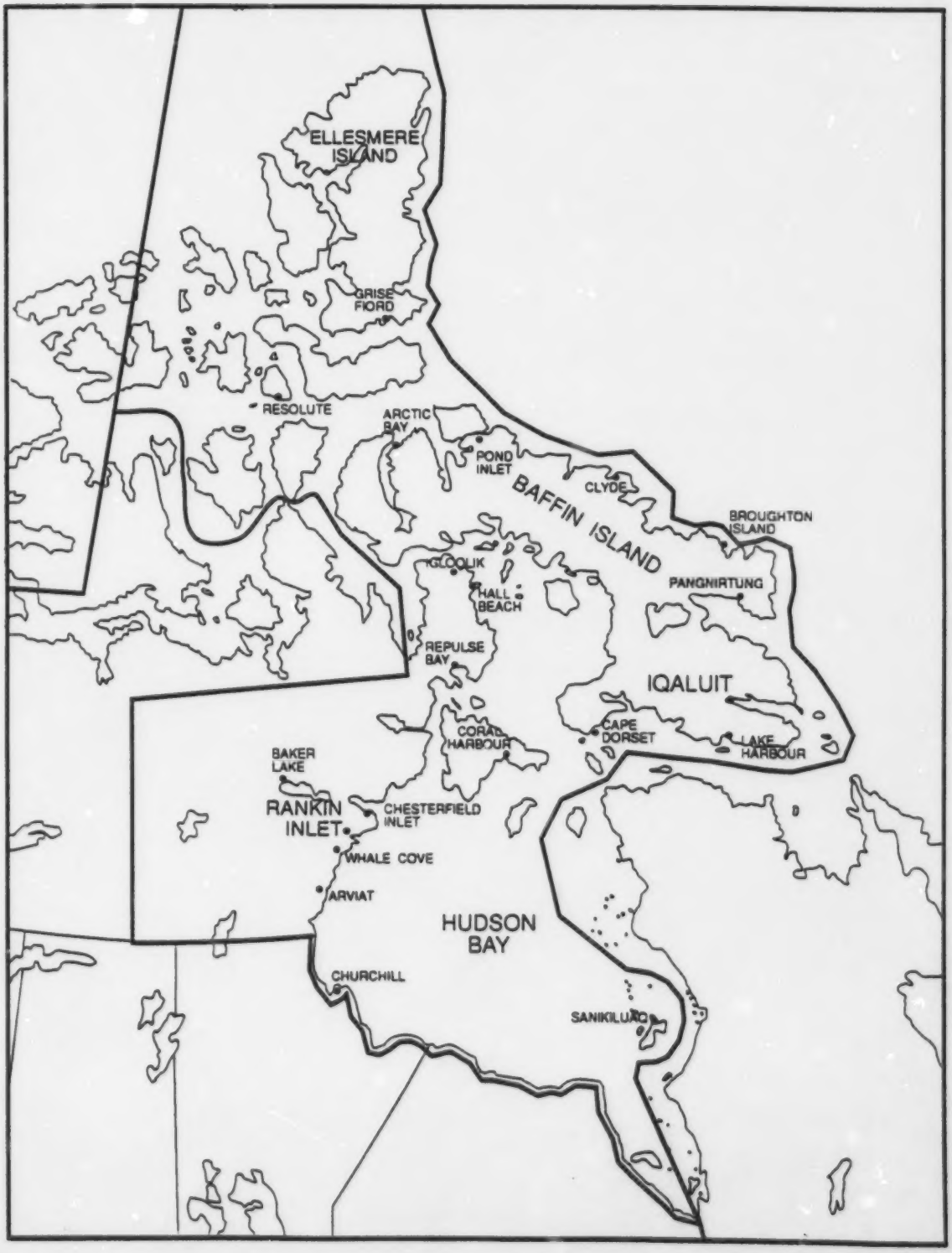
Table 3C.5 Blachford Lake Lodge Angler Diary Program
Trend Data

	1983	1984	1985	1986	1987	1988[a]	1989	1990
Number of Diaries Returned	135	59	67	55	55	56	102	68
Angler Days Reported	357	174	184	175	146	166	279	183
Average Angler Days per Diary	2.6	2.9	2.7	3.2	2.7	3.0	2.7	2.7
Catch per Angler Hour								
- Lake trout	0.72	0.56	0.68	0.82	0.62	0.74	0.84	0.52
- Northern pike	1.47	1.79	1.68	2.17	1.21	0.97	1.55	1.45
- All species	0.88	0.78	0.87	1.22	0.81	0.77	1.00	1.01
Harvest Estimates								
- Lake trout	n/a	n/a	n/a	n/a	n/a	282	206	281
- Northern pike	n/a	n/a	n/a	n/a	n/a	71	55	207
- Others	n/a	n/a	n/a	n/a	n/a	2	71	89
- All species	n/a	n/a	n/a	n/a	n/a	355	332	577

[a] 1988 was the first year in which sufficient, reliable information was available on the number of guest days of all guests to generate harvest estimates.

SECTION 4
EASTERN ARCTIC AREA

Figure 4
EASTERN ARCTIC AREA



EASTERN ARCTIC AREA
1990/91 STATISTICAL HIGHLIGHTS

Commercial and Exploratory Fisheries

- 64 waterbodies opened for commercial fishing under Schedule V of the N.W.T. Fisheries Regulations;
- 36 waterbodies were commercially fished, including two which were fished but not opened;
- 487 commercial fishing licences sold to 377 fishermen in 17 Eastern Arctic communities;
- 28 waterbodies were licensed for exploratory arctic charr fisheries, of which 17 were fished;
- 4 exploratory licences were issued for 4 marine fisheries, all of which were fished.
- Total reported commercial and exploratory fishery landings of 228 775 kg and landed value of $ 466 264;
- Principal commercial species harvested were turbot (61% of landings) and arctic charr (35%).

Recreational Fisheries

- 1 709 recreational fishing licences sold, including 686 resident, 553 other Candian resident, and 470 non-resident licences;
- 15 lodges with a total bed capacity of 249 beds.

Marine Mammal Harvest

- Marine mammal landed harvest of 411 beluga, 275 narwhal and 375 walrus.

A. COMMERCIAL AND EXPLORATORY FISHERIES

Table 4A.1 Eastern Arctic Area, Schedule V Commercial Fisheries, Harvests and Landed Values, by Species, 1990/91

Species	Harvest (rd kgs)	Landed Value ($)
Arctic charr	66 774	208 963
Lake whitefish	500	1 625
Total	67 274	210 588

Table 4A.2 Eastern Arctic Area, Exploratory Fisheries Harvests and Landed Values, by Species, 1990/91

Species	Harvest (rd kgs)	Landed Value ($)
Arctic charr	12 660	42 526
Scallops	8 000	8 000
Turbot	140 791	205 000
Clams	50	150
Total	161 501	255 676

TABLE 4A.3

EASTERN ARCTIC AREA
BAFFIN AND CENTRAL DISTRICT
ARCTIC CHARR COMMERCIAL FISHERIES, BY COMMUNITY
1990/91

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
ARCTIC BAY								
Saputing River Sch. V No. : VI-45 Location : 70-47N 84-56W Open Season: 15Apr90-31Mar91	Arctic charr	9 100	6 195	$12 488	STR	+ 10%		
BROUGHTON ISLAND								
Circle Lake Sch. V No. : VI-8 Location : 66-32N 64-10W Open Season: 26Nov90-31Mar91	Arctic charr (ll)	3 400	NOT FISHED					
Padle Fiord Area Sch. V No. : VI-35 Location : 66-55N 63-25W Open Season: 01Jun90-31Oct90	Arctic charr	3 600	0	$0				
Nudlung Fiord Sch. V No. : VI-32 Location : 68-17N 67-45W Open Season: 01Jun90-31Mar91	Arctic charr	4 500	142	$470	STR	+ 40%		
CLYDE RIVER								
Ayr Lake Sch. V No. : VI-4 Location : 70-24N 70-15W Open Season: 15Apr90-31Mar91	Arctic charr (ll)	6 800	NOT FISHED					

TABLE 4A.3 (continued)

EASTERN ARCTIC AREA
BAFFIN AND CENTRAL DISTRICT
ARCTIC CHARR COMMERCIAL FISHERIES, BY COMMUNITY
1990/91

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
CLYDE RIVER (continued)								
Cape Adair Lake and River Sch. V No. : VI-7 Location : 71-27N 72-00W Open Season: 15Apr90-31Mar91	Arctic charr	2 300	NOT FISHED COMMERCIALLY					
Sam Ford Fiord Area Sch. V No. : VI-44 Location : 70-25N 71-40W Open Season: 15Apr90-31Mar91	Arctic charr	3 600	228	$741	RRO	+ 20%		
Unnamed Lake & River (Dexterity Fiord) Sch. V No. : VI-58 Location : 71-06N 72-45W Open Season: 15Apr90-31Mar91	Arctic charr	900	610	$1 879	STR	+ 20%		
Unnamed Lake & River (Dexterity Fiord) Sch. V No. : VI-59 Location : 71-12N 72-40W Open Season: 15Apr90-31Mar91	Arctic charr	500	500	$1 540	STR	+ 20%		
Unnamed River (North of Cape Raper) Sch. V No. : VI-56 Location : 69-55N 67-06W Open Season: 15Apr90-31Mar91	Arctic charr	1 400	NOT FISHED					

TABLE 4A.3 (continued)

EASTERN ARCTIC AREA
BAFFIN AND CENTRAL DISTRICT
ARCTIC CHARR COMMERCIAL FISHERIES, BY COMMUNITY
1990/91

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
IGLOOLIK AND HALL BEACH								
Eque Bay Area Sch. V No. : VI-14 Location : 70-26N 83-40W Open Season: 26Nov90-31Mar91	Arctic charr	900	NOT FISHED					
Erchsen Lake (Ravn River) Sch. V No. : VI-15 Location : 70-40N 80-40W Open Season: 26Nov90-31Mar91	Arctic charr	9 100	NOT FISHED					
Gifford River Sch. V No. : VI-18 Location : 70-26N 83-40W Open Season: 30Jun90-31Mar91	Arctic charr	3 600	5 045	$13 874	RRO	+ 20%	Samples	G. Carder
Hall Lake Sch. V No. : VI-19 Location : 68-41N 82-17W Open Season: 30Jun90-31Mar91	Arctic charr	9 000	5 000	$13 750	RRO	+ 40%		
Isortog River and Lake Sch. V No. : VI-23 Location : 70-07N 76-30W Open Season: 26Nov90-31Mar91	Arctic charr	5 000	NOT FISHED COMMERCIALLY					
Kukaluk River Sch. V No. : VI-26 Location : 70-12N 81-55W Open Season: 26Nov90-31Mar91	Arctic charr	3 600	NOT FISHED					

TABLE 4A.3 (continued)

EASTERN ARCTIC AREA
BAFFIN AND CENTRAL DISTRICT
ARCTIC CHARR COMMERCIAL FISHERIES, BY COMMUNITY
1990/91

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
IGOOLIK AND HALL BEACH (continued)								
Ravn River Sch. V No. : VI-42 Location : 70-30N 79-50W Open Season: 01Apr90-30Apr90 26Nov90-31Mar91	Arctic charr	9 100	462	$1 271	STR	+ 20%		
Rowley River Sch. V No. : VI-43 Location : 70-23N 77-12W Open Season: 26Nov90-31Mar91	Arctic charr	5 000	NOT FISHED					
Unnamed River and Lake Sch. V No. : VI-62 Location : 70-21N 78-24W Open Season: 26Nov90-31Mar91	Arctic charr	2 500	NOT FISHED					
Whyte Lake and River Sch. V No. : VI-50 Location : 70-10N 84-42W Open Season: 26Nov90-31Mar91	Arctic charr	900	NOT FISHED					
IQALUIT (Frobisher Bay)								
Nettilling Lake Sch. V No. : VI-31 Location : 66-33N 71-00W Open Season: 01Aug90-31Mar91	Arctic charr (sr)	22 700	5 172	$17 326	STR	+ 5%	CPUE	D. Pike
Qualluatik Lake Sch. V No. : VI-41 Location : 63-46N 65-07W Open Season:	Arctic charr	700	570	$1 853	STR	+ 20%	Not Opened	

TABLE 4A.3 (continued)

EASTERN ARCTIC AREA
BAFFIN AND CENTRAL DISTRICT
ARCTIC CHARR COMMERCIAL FISHERIES, BY COMMUNITY
1990/91

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest (rd kgs)	Landed Value	Data Source	Data Quality	Other Data Available	Contact
PANGNIRTUNG								
Ikaluit Lake (Kipisa L) Sch. V No. : VI-25 Location : 65-02N 67-07W Open Season: 01Nov90-31Mar91	Arctic charr	1 400	1 182	$3 900	RRO	+ 10%	100 Samples	D. Pike
Iqalujjuag Fiord Sch. V No. : VI-52 Location : 65-43N 64-51W Open Season: 24Aug90-30Nov90	Arctic charr	1 400	1 100	$3 630	RRO	+ 10%		
Irvine Inlet (McKeand River Area) Sch. V No. : VI-22 Location : 65-30N 68-00W Open Season: 26Nov90-31Mar91	Arctic charr	4 500	4 492	$14 600	RRO	+ 10%		
Kingnait Fiord Sch. V No. : VI-24 Location : 66-53N 64-18W Open Season: 26Nov90-31Mar91	Arctic charr	1 000	1 000	$3 250	RRO	+ 10%	100 Samples	D. Pike
POND INLET								
Coutts Inlet Area Sch. V No. : VI-11 Location : 72-04N 75-06W Open Season: 15Apr90-30Nov90 07Dec90-31Mar91	Arctic charr	900	NOT FISHED					
Ikaliut River (Tay Sound) Sch. V No. : VI-20 Location : 71-58N 79-15W Open Season: 26Nov90-10Dec90	Arctic charr	2 300	2 300	$6 325	RRO	+ 20%		

TABLE 4A.3 (continued)

EASTERN ARCTIC AREA
BAFFIN AND CENTRAL DISTRICT
ARCTIC CHARR COMMERCIAL FISHERIES, BY COMMUNITY
1990/91

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
POND INLET (continued)								
Paquet Bay River and Lake Sch. V No. : VI-37 Location : 71-38N 77-20W Open Season: 15Apr90-30Nov90 07Dec90-31Mar91	Arctic charr	1 000	409	$1 125	RRO	+ 10%		
Tugsat River Sch. V No. : VI-48 Location : 72-03N 80-40W Open Season: 15Apr90-30Nov90 07Dec90-31Mar91	Arctic charr	1 000	329	$905	RRO	+ 10%		
RESOLUTE								
Stanwell-Fletcher Lake Sch. V No. : IV-33 Location : 72-39N 94-41W Open Season:	Arctic charr	6 800	2 663	$14 647	RRO	+ 20%	Not Opened	

TABLE 4A.4

EASTERN ARCTIC AREA
KEEWATIN DISTRICT
COMMERCIAL FISHERIES, BY COMMUNITY
1990/91

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
ARVIAT								
Copperneedle River Sch. V No. : V-20 Location : 61-52N 93-37W Open Season: 01Jun90-31Mar91	Arctic charr	4 500	3 027	$ 10 575	STR	+ 10%	Samples	D. Pike
Eskimo Point Area Sch. V No. : V-28 Location : 61-07N 94-04W Open Season: 01Jun90-310ct90	Arctic charr	4 500	295	$ 970	STR	+ 10%	Samples	D. Pike
Maguse River Sch. V No. : V-45 Location : 61-17N 94-03W Open Season: 01Jun90-310ct90	Arctic charr	4 500	386	$1 439	STR	+ 10%		
Sandy Point Sch. V No. : V-66 Location : 61-45N 93-18W Open Season: 01Jun90-310ct90	Arctic charr	900	960	$3 577	STR	+ 10%	17 Samples	D. Pike
Wallace River Sch. V No. : V-76 Location : 61-36N 93-40W Open Season: 01Jun90-310ct90	Arctic charr	2 300	206	$ 680	STR	+ 10%		

TABLE 4A.4 (continued)

EASTERN ARCTIC AREA
KEEWATIN DISTRICT
COMMERCIAL FISHERIES, BY COMMUNITY
1990/91

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
BAKER LAKE								
Baker Lake Sch. V No. : V-3 Location : 64-00N 96-00W Open Season: 01Apr90-31Mar91	Lake Whitefish Lake Trout	22 700	500	$1 625	FO	+ 100%		
Garry Lake Sch. V No. : V-31 Location : 66-00N 100-00W Open Season: 01Apr90-31Mar91	Lake Whitefish Lake Trout	7 600	NOT FISHED					
Stony Point Sch. V No. : V-72 Location : 63-54N 92-45W Open Season: 01Jun90-31Oct90	Arctic charr	6 800	500	$1 625	FO	+\- 50%	Harvest Estimated	
CHESTERFIELD INLET								
Chesterfield Inlet (Fish Bay) Sch. V No. : V-16 Location : 63-18N 90-45W Open Season: 01Jun90-31Oct90	Arctic charr	4 600	1 973	$5 551	STR	+ 10%	Samples	D. Pike
Marie Harbour Sch. V No. : V-48 Location : 63-42N 91-24W Open Season: 01Apr90-31Mar91	Arctic charr	2 300	NOT FISHED					
Ranger Seal Bay Sch. V No. : V-63 Location : 63-45N 91-40W Open Season: 01Apr90-31Mar91	Arctic charr	9 100	NOT FISHED					

TABLE 4A.4 (continued)

EASTERN ARCTIC AREA
KEEWATIN DISTRICT
COMMERCIAL FISHERIES, BY COMMUNITY
1990/91

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
CHESTERFIELD INLET (continued)								
Robin Hood Bay Sch. V No. : V-65 Location : 63-45N 92-02W Open Season: 01Apr90-31Mar91	Arctic charr	6 800	NOT FISHED					
Steep Bank Bay Sch. V No. : V-71 Location : 63-36N 91-37W Open Season: 01Apr90-31Mar91	Arctic charr	4 500	NOT FISHED					
CHURCHILL								
Churchill River Area Sch. V No. : V-17 Location : 58-47N 94-12W Open Season: 01Jun90-31Oct90	Arctic charr Lake Whitefish Cisco (spp)	500 500 500	400 0 0	$1 300 $0 $0	FO	+ 50%		
CORAL HARBOUR								
Cleveland River Area Sch. V No. : V-19 Location : 65-10N 84-48W Open Season: 01Jun90-30Sep90 01Oct90-31Mar91	Arctic charr	6 100	NOT FISHED					
Thomsen River Area (Duke of York Bay) Sch. V No. : V-75 Location : 65-28N 85-16W Open Season: 01Jun90-31Mar91	Arctic charr	4 200	NOT FISHED					

TABLE 4A.4 (continued)

EASTERN ARCTIC AREA
KEEWATIN DISTRICT
COMMERCIAL FISHERIES, BY COMMUNITY
1990/91

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
RANKIN INLET								
Baker Foreland Lake Sch. V No. : V-4 Location : 62-51N 90-55W Open Season: 01Jun90-31Oct90	Arctic charr	4 600	1 690	$4 986	STR	+ 10%	Samples	D. Pike
Corbett Inlet Sch. V No. : V-21 Location : 62-28N 92-20W Open Season: 01Apr90-31Mar91	Arctic charr	4 500	1 733	$5 754	STR	+ 10%	Samples	D. Pike
Hanway River Sch. V No. : V-36 Location : 63-33N 92-22W Open Season: 15Nov90-31Mar91	Arctic charr	2 300	NOT FISHED					
Kaminuriak Lake Sch. V No. : V-42 Location : 62-55N 95-30W Open Season: 01Jun90-30Sep90	Lake Whitefish Lake Trout	1 000	NOT FISHED					
Unnamed River Sch. V No. : V-83 Location : 63-32N 92-35W Open Season: 15Nov90-31Mar91	Arctic charr	6 800	NOT FISHED					
REPULSE BAY								
Bennett Bay, Wager Bay Sch. V No. : V-8 Location : 65-55N 89-40W Open Season: 01Oct90-31Mar91	Arctic charr	2 300	NOT FISHED					

TABLE 4A.4 (continued)

EASTERN ARCTIC AREA
KEEWATIN DISTRICT
COMMERCIAL FISHERIES, BY COMMUNITY
1990/91

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
REPULSE BAY (continued)								
Brown River Sch. V No. : V-13 Location : 65-55N 90-55W Open Season: 01Jun90-31Mar91	Arctic charr	6 800	NOT FISHED					
Curtis River (Committee Bay) Sch. V No. : IV-7 Location : 67-12N 87-28W Open Season: 01Oct90-31Mar91	Arctic charr	4 500	225	$619	STR	+ 10%		
Gore Bay area Sch. V No. : V-34 Location : 66-21N 84-25W Open Season: 01Jun90-31Mar91	Arctic charr	3 600	NOT FISHED					
Haviland Bay area Sch. V No. : V-37 Location : 66-31N 85-25W Open Season: 01Jun90-31Mar91	Arctic charr	6 800	NOT FISHED					
North Pole River Sch. V No. : V-51 Location : 66-32N 86-45W Open Season: 01Jun90-31Mar91	Arctic charr	2 300	106	$291	STR	+ 10%		
Piksimak River (Douglas Harbour) Sch. V No. : V-58 Location : 63-37N 88-25W Open Season: 01Jun90-31Mar91	Arctic charr	2 300	NOT FISHED					
Snowbank River Sch. V No. : V-69 Location : 65-54N 86-30W Open Season: 01Oct90-31Mar91	Arctic charr	2 300	NOT FISHED					

TABLE 4A.4 (continued)

EASTERN ARCTIC AREA
KEEWATIN DISTRICT
COMMERCIAL FISHERIES, BY COMMUNITY
1990/91

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest (rd kgs)	Landed Value	Data Source	Data Quality	Other Data Available	Contact
WHALE COVE								
Ferguson River Sch. V No. : V-29 Location : 62-04N 93-20W Open Season: 01Jun90-31Mar91	Arctic charr	13 600	8 696	$28 199	STR	+ 10%	Samples	D. Pike
Mistake Bay Sch. V No. : V-49 Location : 62-10N 92-57W Open Season: 01Jun90-31Oct90	Arctic charr	2 300	75	$244	STR	+ 10%		
Pistol Bay Sch. V No. : V-59 Location : 62-28N 92-44W Open Season: 01Jun90-31Oct90	Arctic charr	2 300	1 344	$4 371	STR	+ 10%		
Unnamed River Sch. V No. : V-81 Location : 61-33N 93-50W Open Season: 01Aug90-30Sep90	Arctic charr	2 300	NOT FISHED					
Unnamed River Sch. V No. : V-82 Location : 61-57N 93-22W Open Season: 01Jun90-31Oct90	Arctic charr	2 300	NOT FISHED					
Wilson Bay Sch. V No. : V-79 Location : 62-18N 92-53W Open Season: 01Jun90-31Mar91	Arctic charr	8 000	7 759	$25 208	STR	+ 10%	Samples	D. Pike

TABLE 4A.5

EASTERN ARCTIC AREA
EXPLORATORY FISHERIES
1990/91

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
EF-9091-01									
Unnamed Lake 62-10N 67-22W	Arctic Charr	140mm	1 000	NOT FISHED					
Unnamed Lake (Bond Inlet) 62-15N 67-39W	Arctic Charr	140mm	1 000	NOT FISHED					
Unnamed Lake (East of Gammarus Cove) 61-58N 66-25W	Arctic Charr	140mm	1 000	NOT FISHED					
EF-9091-03									
Unnamed Lake (Frenchman Cove) 63-03N 65-12W	Arctic Charr	140mm	1 000	NOT FISHED					
Unnamed Lake (Loks Land) 62-27N 64-42W	Arctic Charr	140mm	1 500	0	0				
EF-9091-13									
Naulingniarvik L. 67-52N 82-05W	Arctic Charr	140mm	1 000	NOT FISHED					
Unnamed Lake (Tasirjuarusiq) 67-42N 81-33W	Arctic Charr	140mm	1 000	NOT FISHED					
EF-9091-22									
Unnamed Lake (Ikpit) 65-26N 67-38W	Arctic Charr	140mm	1 000	600	$1 980	STR	+ 10%		
EF-9091-23									
Unnamed Lake (Qanayutuk) 65-21N 67-32W	Arctic Charr	140mm	1 000	900	$2 970	STR	+ 10%		

TABLE 4A.5 (continued)

EASTERN ARCTIC AREA
EXPLORATORY FISHERIES
1990/91

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
EF-9091-24									
Brown River/Lake 63-57N 94-16W	Arctic Charr	140mm	1 000	144	$468	RRO	+/- 5%		
Unnamed Lake (1) (Cross Bay) 63-47N 93-32W	Arctic Charr	140mm	1 000	NOT FISHED					
Unnamed Lake (2) (Cross Bay) 63-43N 93-20W	Arctic Charr	140mm	1 000	NOT FISHED					
Unnamed Lake (3) (Cross Bay) 63-46N 93-15W	Arctic Charr	140mm	1 000	NOT FISHED					
EF-9091-27									
Ivisarak Lake 70-34N 86-20W	Arctic Charr	140mm	2 000	1 202	$3 797	STR	+ 20%		
Magda River 71-39N 84-37W	Arctic Charr	140mm	2 000	2 245	$6 926	STR	+ 10%		
Navarana Lake 70-29N 87-09W	Arctic Charr	140mm	1 000	NOT FISHED					
Unnamed Lake (Ikikeesarjuk) 71-12N 87-22W	Arctic Charr	140mm	1 000	1 051	$3 242	STR	+ 10%		
EF-9091-29									
Ross Inlet 67-09N 87-16W	Arctic Charr	140mm	2 500	448	$1 232	STR	+ 10%		
Tasirjuaq River 67-04N 84-52W	Arctic Charr	140mm	2 500	1 558	$4 284	STR	+ 10%		

TABLE 4A.5 (continued)

EASTERN ARCTIC AREA
EXPLORATORY FISHERIES
1990/91

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
EF-9091-30									
Naulirjavik Lake 65-13N 63-50W	Arctic Charr	140mm	1 500	1 470	$4 778	RRO	+ 10%		
Opingivik Lake 65-14N 67-22W	Arctic Charr	140mm	1 400	90	$293	RRO	+ 10%		
Unnamed Lake (Anaktunjuit) 65-17N 64-05W	Arctic Charr	140mm	1 000	758	$2 464	RRO	+ 10%		
Unnamed Lake (Anguyatutit) 65-05N 63-42W	Arctic Charr	140mm	1 500	0	0	RRO	0%		
Unnamed Lake (Ijaravung) 66-43N 67-48W	Arctic Charr	140mm	1 400	1 502	$4 882	RRO	+ 10%		
Unnamed Lake (Kangijavala) 66-13N 68-50W	Arctic Charr	140mm	1 500	3	$0	RRO	0%		
Unnamed Lake (Tasiqalluq) 64-47N 66-31W	Arctic Charr	140mm	1 000	NOT FISHED					
Unnamed Lake (Qasigiat)(Ptarmigan Fiord) 64-37N 66-19W	Arctic Charr	140mm	1 000	680	$2 210	RRO	+ 10%		
EF-9091-32									
Unnamed Lake (Sapujjuat) 64-35N 75-54W	Arctic Charr	140mm	1 500	9	$0	RRO	0%		

TABLE 4A.6

EASTERN ARCTIC AREA
EXPLORATORY MARINE FISHERIES
1990/91

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
EF-90/91-01									
Cumberland Sound	Scallops	drags	100 000	8 000	$8 000	FO	+/- 20%		
EF-9091-12									
Admiralty Inlet 69-28N 101-10W	Marine Clams	dredges	5 000	50	$150	RRO	+/- 20%	Samples, CPUE	D. Pike
EF-9091-19									
Frobisher Bay area 63-45N 68-31W	Turbot	longlines	5 000	5	$0	FO	+/- 10%	20 samples, CPUE	D. Pike
	Atlantic Cod	longlines	5 000	0	0				
	Shrimp	pots	5 000	2	0	FO			
	Scallops	buckets	5 000	600	$600	FO	+/- 10%		
EF-9091-31									
Cumberland Sound 65-30N 66-30W	Turbot	longlines	300 000	139 288	$137 852	STR	+/- 10%	50 samples, CPUE	D. Pike

Table 4A.7

Eastlern Arctic Area
Commercial Fishing Licence Sales, by Community
1990/91

Community	Resident		Non-resident		Total	
	Licences Sold	Fishermen	Licences Sold	Fishermen	Licences Sold	Fishermen
Arctic Bay	26	26	0	0	26	26
Arviat	159	94	0	0	159	94
Baker Lake	14	12	0	0	14	12
Broughton Island	6	5	0	0	6	5
Cape Dorset	7	6	0	0	7	6
Chesterfield Inlet	17	17	0	0	17	17
Churchill	0	0	12	12	12	12
Clyde	20	16	0	0	20	16
Coral Harbour	9	8	0	0	9	8
Hall Beach	22	22	0	0	22	22
Igloolik	9	8	0	0	9	8
Iqaluit	2	2	0	0	2	2
Pangnirtung	60	48	0	0	60	48
Pond Inlet	14	10	0	0	14	10
Rankin Inlet	29	27	0	0	29	27
Repulse Bay	14	13	0	0	14	13
Resolute Bay	0	0	0	0	0	0
Whale Cove	67	51	0	0	67	51
Total	475	365	12	12	487	377

B. MARINE MAMMAL HARVESTS

Table 4B.1 Eastern Arctic Area
Marine Mammal Harvests,
by Region and Species, 1990/91

Region	Beluga	Narwhal	Walrus
High Arctic	47	253	214
South Baffin/ Hudson Strait	98	5	88
West Hudson Bay	246	17	68
East Hudson Bay	20	0	5
Total	411	275	375

Table 4B.2 Eastern Arctic Area
Marine Mammal Harvests,
by Community and Species, 1990/91

Region/Community	Species	Number Landed	Data Source	Data Quality	Years with Reported Harvest used in FYA
<u>High Arctic</u>					
Arctic Bay	Beluga	0	RRO	n/a	
	Narwhal	67	TAG	+ 10%	
	Walrus	1	RRO	+ 500	
Broughton Island	Beluga	0	RRO	n/a	
	Narwhal	50	TAG	+ 10%	
	Walrus	10	FYA	5 - 15	1985-89
Clyde	Beluga	0	FYA	0 - 1	1984-87, 1989
	Narwhal	26	TAG	+ 10%	
	Walrus	1	FYA	0 - 3	1985-1989

. . . continued

Table 4B.2 (continued) Eastern Arctic Area
Marine Mammal Harvest,
by Community and Species, 1990/91

Region/Community	Species	Number Landed	Data Source	Data Quality	Years with Reported Harvest used in FYA
High Arctic (continued)					
Cresswell Bay	Beluga	9	FYA	0 - 20	1984-1988
	Narwhal	12	TAG	+ 50%	
	Walrus	0	-	n/a	no historical data
Grise Fiord	Beluga	0	RRO	n/a	
	Narwhal	19	TAG	+ 10%	
	Walrus	19	RRO	+ 10%	
Hall Beach	Beluga	11	FYA	1 - 21	1984-1988
	Narwhal	0	TAG	n/a	
	Walrus	74	FYA	26 - 110	1984-1988
Igloolik	Beluga	21	FYA	7 - 50	1985-1989
	Narwhal	0	TAG	n/a	
	Walrus	104	FYA	63 - 125	1985-1989
Pond Inlet	Beluga	1	RRO	+ 500%	
	Narwhal	69	TAG	+ 10%	
	Walrus	0	RRO	n/a	
Resolute Bay	Beluga	5	FYA	0 - 12	1985-1989
	Narwhal	10	TAG	+ 10%	
	Walrus	5	FYA	2 - 8	1982, 1986-89
South Baffin/Hudson Strait					
Cape Dorset	Beluga	39	RRO	+ 30%	
	Narwhal	0	TAG	n/a	
	Walrus	24	RRO	+ 20%	
Iqaluit	Beluga	2	FO	+ 20%	
	Narwhal	3	TAG	+ 10%	
	Walrus	16	FYA	4 - 29	1985-1989
Lake Harbour	Beluga	21	RRO	+ 10%	
	Narwhal	0	TAG	n/a	
	Walrus	8	RRO	+ 30%	
Pangnirtung	Beluga	36	RRO	+ 20%	
	Narwhal	2	TAG	+ 10%	
	Walrus	40	RRO	+ 50%	

. . . continued

Table 4B.2 (continued) Eastern Arctic Area
Marine Mammal Harvest,
by Community and Species, 1990/91

Region/Community	Species	Number Landed	Data Source	Data Quality	Years with Reported Harvest used in FYA
West Hudson Bay					
Arviat	Beluga	70	FYA	60 - 85	1983-1987
	Narwhal	0	TAG	n/a	
	Walrus	0	FYA	0 - 1	1983-1987
Chesterfield Inlet	Beluga	20	FYA	5 - 34	1983-1987
	Narwhal	0	TAG	n/a	
	Walrus	9	FYA	0 - 20	1982-1986
Churchill	Beluga[a]	2	FO	+/- 0	
	Narwhal	0	TAG	n/a	
	Walrus	0	FYA	0	never harvested
Coral Harbour	Beluga	67	FYA	29 - 116	1983-1987
	Narwhal	0	TAG	n/a	
	Walrus	45	FYA	24 - 67	1983-1987
Rankin Inlet	Beluga	40	FYA	30 - 69	1983-1987
	Narwhal	0	TAG	n/a	
	Walrus	3	FYA	1 - 5	1984-1988
Repulse Bay	Beluga	20	FYA	3 - 30	1983-1987
	Narwhal	17	TAG	+ 20%	
	Walrus	11	FYA	5 - 18	1983-1987
Whale Cove	Beluga	27	FYA	19 - 35	1984-87, 1989
	Narwhal	0	TAG	n/a	
	Walrus	0	FYA	0 - 3	1983-1987
Eastern Hudson Bay					
Sanikiluaq	Beluga	20	FO	+ 20%	
	Narwhal	0	TAG	n/a	
	Walrus	5	FYA	1 - 10	1983-1987

[a] Live capture of 2 beluga

n/a = not applicable

APPENDIX 1
FINAL PAYMENTS

The Freshwater Fish Marketing Corporations usually makes a final payment to fishermen in November or December following the end of the fiscal year (April 30). The final payments vary from year to year, depending on the marketed value the FFMC received for each species. The prices at which the FFMC is able to market fish are set largely by world fish markets as approximately 80% of the FFMC's sales are exports.

The following table shows the final payments made for the species harvested in the Northwest Territories for the past five years.

Freshwater Fish Marketing Corporation
Final Payments
by Species and Fiscal Year

($ per round equivalent kg)

Species	1986/87	1987/88	1988/89	1989/90	1990/91
Whitefish					
Export	0.06	0.37	0.40	0.23	0.03
Continental	0.06	--	--	--	--
Smoker	--	--	0.40	--	--
Walleye	1.98	2.22	0.44	0	0.21
Lake Trout	0	0.22	0	0	0
Northern Pike	0.62	0.43	0.31	0.07	0.38
Arctic Charr	0.96	3.01	1.13	0.31	0.36
Inconnu	0.46	0.69	0.47	0	0.34
Burbot	0	0	--	--	0
Mullet (suckers)	--	--	0	--	0

-- no sales

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